

Publicações Departamento de Física da Universidade de Aveiro (2017)

[1] Adolph C, Aghasyan M, Akhunzyanov R, Alexeev GD, Alexeev MG, Amoroso A, Andrieux V, Anfimov NV, Anosov V, Augsten K, Augustyniak W, Austregesilo A, Azevedo CDR, Badelek B, Balestra F, Barth J, Beck R, Bedfer Y, Bernhard J, Bicker K, Bielert ER, Birsá R, Bisplinghoff J, Bodlak M, Boer M, Bordalom P, Bradamante F, Braun C, Bressan A, Buchele M, Capozza L, Chang WC, Chatterjee C, Chiosso M, Choi I, Chung SU, Cicuttin A, Crespo ML, Curiel Q, Dalla Torre S, Dasgupta SS, Dasgupta S, Denisov OY, Dhara L, Donskov SV, Doshita N, Duic V, Dunnweber W, Dziewiecki M, Efremov A, Eversheim PD, Eyrich W, Faessler M, Ferrero A, Finger M, Finger M, Fischer H, Franco C, von Hohenesche NDV, Friedrich JM, Frolov V, Fuchey E, Gautheron F, Gavrichtchouk OP, Gerassimov S, Giordano F, Gnesi I, Gorzellik M, Grabmüller S, Grasso A, Perdekamp MG, Grube B, Grussenmeyer T, Guskov A, Haas F, Hahne D, Vonharrach D, Hashimoto R, Heinsius H, Heitz R, Herrmann F, Hinterberger F, Horikawa N, d'Hose N, Hsieh CY, Huber S, Ishimoto S, Ivanov A, Ivanshin Y, Iwata T, Jahn R, Jary V, Joosten R, Jorg P, Kabuss E, Ketzer B, Khaustov GV, Khokhlov YA, Kisselev Y, Klein F, Klimaszewski K, Koivuniemi JH, Kolosov VN, Kondo K, Königsmann K, Konorov I, Konstantinov VF, Kotzinian AM, Kouznetsov OM, Kramer M, Kremser P, Krinner F, Kroumchtein ZV, Kuhn R, Kulinich Y, Kunne F, Kurek K, Kurjata RP, Lednev AA, Lehmann A, Levillain M, Levorato S, Lian YS, Lichtenstadt J, Longo R, Maggiora A, Magnon A, Makins N, Makke N, Mallot GK, Marchand C, Marianski B, Martin A, Marzec J, Matousek J, Matsuda H, Matsuda T, Meshcheryakov GV, Meyer M, Meyer W, Michigami T, Mikhailov YV, Mikhasenko M, Mitrofanov E, Mitrofanov N, Miyachi Y, Montuenga P, Nagaytsev A, Nerling F, Neyret D, Nikolaenko VI, Novy J, Nowak WD, Nukazuka G, Nunes AS, Olshevsky AG, Orlov I, Ostrick M, Panzieri D, Parsamyan B, Paul S, Peng JC, Pereira F, Pesek M, Peshekhonov DV, Pierre N, Platchkov S, Pochodzalla J, Polyakov VA, Pretz J, Quaresma M, Quintans C, Ramos S, Regali C, Reicherz G, Riedl C, Roskot M, Rossiyskaya NS, Ryabchikov DI, Rybnikov A, Rychter A, Salac R, Samoylenko VD, Sandacz A, Santos C, Sarkar S, Savin IA, Sawada T, Sbrizzai G, Schiavon P, Schmidt K, Schmieden H, Schonning K, Schopferer S, Seder E, Selyunin A, Shevchenko OY, Silva L, Sinha L, Sirtl S, Slunecka M, Smolik J, Sozzi F, Srnka A, Steffen D, Stolarski M, Sulc M, Suzuki H, Szabelski A, Szameitat T, Sznajder P, Takekawa S, Tasevsky M, Tessaro S, Tessarotto F, Thibaud F, Tosello F, Tskhay V, Uhl S, Veloso J, Virius M, Vondra J, Weisrock T, Wilfert M, Windmolders R, Terwolbeek J, Zaremba K, Zavada P, Zavytyaev M, Zemlyanichkina E, Zhuravlev N, Ziembicki M, Zink A (2017) Multiplicities of charged pions and charged hadrons from deep-inelastic scattering of muons off an isoscalar target. *PHYSICS LETTERS B*, 764, 1 - 10. <http://dx.doi.org/10.1016/j.physletb.2016.09.042>

[2] Adolph C, Aghasyan M, Akhunzyanov R, Alexeev MG, Alexeev GD, Amoroso A, Andrieux V, Anfimov NV, Anosov V, Augsten K, Augustyniak W, Austregesilo A, Azevedo CDR, Badelek B, Balestra F, Ball M, Barth J, Beck R, Bedfer Y, Bernhard J, Bicker K, Bielert ER, Birsá R, Bodlak M, Bordalo P, Bradamante F, Braun C, Bressan A, Buchele M, Chang WC, Chatterjee C, Chiosso M, Choi I, Chung SU, Cicuttin A, Crespo ML, Curiel Q, Torre SD, Dasgupta SS, Dasgupta S, Denisov OY, Dhara L, Donskov SV, Doshita N, Dreisbach C, Duic V, Dunnweber W, Dziewiecki M, Efremov A, Eversheim PD, Eyrich W, Faessler M, Ferrero A, Finger M, Finger M, Fischer H, Franco C, von Hoheneschem ND, Friedrich JM, Frolov V, Fuchey E, Gautheron F, Gavrichtchouk

OP, Gerassimov S, Giarra J, Giordano F, Gnesi I, Gorzellik M, Grabmuller S, Grasso A, Perdekamp MG, Grube B, Grussenmeyer T, Guskov A, Haas F, Hahne D, Hamar G, von Harrach D, Heinsius FH, Heitz R, Herrmann F, Horikawa N, d'Hose N, Hsieh CY, Huber S, Ishimoto S, Ivanov A, Ivanshin Y, Iwata T, Jary V, Joosten R, Jorg R, Kabuss E, Ketzer B, Khaustov GV, Khokhlov YA, Kisselev Y, Klein F, Klimaszewski K, Koivuniemi JH, Kolosov VN, Kondo K, Konigsmann K, Konorov I, Konstantinov VF, Kotzinian AM, Kouznetsov OM, Kramer M, Kremser R, Krinner F, Kroumchtein ZV, Kulinich Y, Kunne F, Kurek K, Kurjata RP, Lednev AA, Lehmann A, Levillain M, Levorato S, Lian YS, Lichtenstadt J, Longo R, Maggiora A, Magnon A, Makins N, Makke N, Mallot GK, Marianski B, Martin A, Marzec J, Matousek J, Matsuda H, Matsuda T, Meshcheryakov GV, Meyer M, Meyer W, Mikhailov YV, Mikhasenko M, Mitrofanov E, Mitrofanov N, Miyachi Y, Nagaytsev A, Nerling F, Neyret D, Novy J, Nowak WD, Nukazuka G, Nunes AS, Olshevsky AG, Orlov I, Ostrick M, Panzieri D, Parsamyan B, Paul S, Peng JC, Pereira F, Pesek M, Peshekhonov DV, Pierre N, Platchkov S, Pochodzalla J, Polyakov VA, Pretz J, Quaresma M, Quintans C, Ramos S, Regali C, Reicherz G, Riedl C, Roskot M, Rossiyskaya NS, Ryabchikov DI, Rybnikov A, Rychter A, Salac R, Samoylenko VD, Sandacz A, Santos C, Sarkar S, Savin IA, Sawada T, Sbrizzai G, Schiavon P, Schmidt K, Schmieden H, Schonning K, Seder E, Selyunin A, Silva L, Sinha L, Sirtl S, Slunecka M, Smolik J, Srnka A, Steffen D, Stolarski M, Subrt O, Sulc M, Suzuki H, Szabelski A, Szameitat T, Sznajder P, Takekawa S, Tasevsky M, Tessaro S, Tessarotto F, Thibaud F, Thiel A, Tosello F, Tskhay V, Uhl S, Veloso J, Virius M, Vondra J, Wallner S, Weisrock T, Wilfert M, ter Wolbeek J, Zaremba K, Zavada P, Zavertyaev M, Zemlyanichkina E, Zhuravlev N, Ziembicki M, Zink A (2017) *Sivers asymmetry extracted in SIDIS at the hard scales of the Drell-Yan process at COMPASS. PHYSICS LETTERS B, 770, 138 - 145.*
<http://dx.doi.org/10.1016/j.physletb.2017.04.042>

[3] Adolph C, Aghasyan M, Akhunzyanov R, Alexeev MG, Alexeev GD, Amoroso A, Andrieux V, Anfimov NV, Anosov V, Augsten K, Augustyniak W, Austregesilo A, Azevedo CDR, Badelek B, Balestra F, Ball M, Barth J, Beck R, Bedfer Y, Bernhard J, Bicker K, Bielert ER, Birsá R, Bodlak M, Bordalo P, Bradamante F, Braun C, Bressan A, Buchele M, Chang WC, Chatterjee C, Chiosso M, Choi I, Chung SU, Cicuttin A, Crespo ML, Curiel Q, Dalla Torre S, Dasgupta SS, Dasgupta S, Denisov Y, Dhara L, Donskov SV, Doshita N, Dreisbach C, Duic V, Dunnweber W, Dziemiecki M, Efremov A, Eversheim PD, Eyrich W, Faessler M, Ferrero A, Finger M, Finger M, Fische H, Franco C, von Hohenesche ND, Friedrich JM, Frolov V, Fuchey E, Gautheron F, Gavrichtchouk OP, Gerassimov S, Giarra J, Giordano R, Gnesi I, Gorzellik M, Grabmuller S, Grasso A, Perdekamp MG, Grube B, Grussenmeyer T, Guskov A, Haas F, Hahne D, Hamar G, von Harrach D, Heinsius FH, Heitz R, Herrmann F, Horikawa N, d'Hose N, Hsieh CY, Huber S, Ishimoto S, Ivanov A, Ivanshin Y, Iwata T, Jary V, Joosten R, Jorg P, Kabuss E, Kerbizi A, Ketzer B, Khaustov GV, Khokhlov YA, Kisselev Y, Klein F, Klimaszewski K, Koivuniemi JH, Kolosov VN, Kondo K, Konigsmann K, Konorov I, Konstantinov VF, Kotzinian AM, Kouznetsov OM, Kramer M, Kremser P, Krinner F, Kroumchtein ZV, Kulinich Y, Kunne F, Kurek K, Kurjata RP, Lednev AA, Lehmann A, Levillain M, Levorato S, Lian YS, Lichtenstadt J, Longo R, Maggiora A, Magnon A, Makins N, Makke N, Mallot GK, Marianski B, Martin A, Marzec J, Matousek J, Matsuda H, Matsuda T, Meshcheryakov GV, Meyer M, Meyer W, Mikhailov YV, Mikhasenko M, Mitrofanov E, Mitrofanov N, Miyachi Y, Nagaytsev A, Nerling F, Neyret D, Novy J, Nowak WD, Nukazuka G, Nunes AS, Olshevsky AG, Orlov I, Ostrick M, Panzieri D, Parsamyan B, Paul S, Peng JC, Pereira F, Pesek M, Peshekhonov DV, Pierre N, Platchkov S, Pochodzalla J, Polyakov VA, Pretz J,

Quaresma M, Quintans C, Ramos S, Regali C, Reicherz G, Riedl C, Roskot M, Rossiyskaya NS, Ryabchikov DI, Rybnikov A, Rychter A, Salac R, Samoylenko VD, Sandacz A, Santos C, Sarkar S, Savin IA, Sawada T, Sbrizzai G, Schiavon P, Schmidt K, Schmieden H, Schonning K, Seder E, Selyunin A, Silva L, Sinha L, Sirtl S, Slunecka M, Smolik J, Srnka A, Steffen D, Stolarski M, Subrt O, Sulc M, Suzuki H, Szabelski A, Szameitat T, Sznajder P, Takekawa S, Tasevsky M, Tessaro S, Tessarotto F, Thibaud F, Thiel A, Tosello F, Tskhay V, Uhl S, Vauth A, Veloso J, Virius M, Vondra J, Wallner S, Weisrock T, Wilfert M, Windmolders R, ter Wolbeek J, Zarembo K, Zavada R, Zavertyaev M, Zemlyanichkina E, Zhuravlev N, Ziembicki M, Zink A (2017) Final COMPASS results on the deuteron spin-dependent structure function $g(1)(d)$ and the Bjorken sum rule. *PHYSICS LETTERS B*, 769, 34 - 41. <http://dx.doi.org/10.1016/j.physletb.2017.03.018>

[4] Adolph C, Aghasyan M, Akhunzyanov R, Alexeev MG, Alexeev GD, Amoroso A, Andrieux V, Anfimov NV, Anosov V, Augsten K, Augustyniak W, Austregesilo A, Azevedo CDR, Badelek B, Balestra F, Ball M, Barth J, Beck R, Bedfer Y, Bernhard J, Bicker K, Bielert ER, Birsa R, Bodlak M, Bordalo P, Bradamante F, Braun C, Bressan A, Buchele M, Capozza L, Chang WC, Chatterjee C, Chiosso M, Choi I, Chung SU, Cicuttin A, Crespo ML, Curiel Q, Torre SD, Dasgupta SS, Dasgupta S, Denisov OY, Dhara L, Donskov SV, Doshita N, Dreisbach C, Duic V, Dunnweber W, Dziewiecki M, Efremov A, Eversheim PD, Eyrich W, Faessler M, Ferrero A, Finger M, Finger M, Fischer H, Franco C, von Hohenesche ND, Friedrich JM, Frolov V, Fuchey E, Gautheron F, Gavrichtchouk OP, Gerassimov S, Giordano F, Gnesi I, Gorzellik M, Grabmuller S, Grasso A, Perdekamp MG, Grube B, Grussenmeyer T, Guskov A, Haas F, Hahne D, Hamar G, von Harrach D, Heinsius FH, Heitz R, Herrmann F, Horikawa N, d'Hose N, Hsieh CY, Huber S, Ishimoto S, Ivanov A, Ivanshin Y, Iwata T, Jary V, Joosten R, Jorg P, Kabuss E, Ketzer B, Khaustov GV, Khokhlov YA, Kisselev Y, Klein F, Klimaszewski K, Koivuniemi JH, Kolosov VN, Kondo K, Konigsmann K, Konorov I, Konstantinov VF, Kotzinian AM, Kouznetsov OM, Kramer M, Kremser P, Krinner F, Kroumchtein ZV, Kulinich Y, Kunne F, Kurek K, Kurjata RP, Lednev AA, Lehmann A, Levillain M, Levorato S, Lian YS, Lichtenstadt J, Longo R, Maggiora A, Magnon A, Makins N, Makke N, Mallot GK, Marianski B, Martin A, Marzec J, Matousek J, Matsuda H, Matsuda T, Meshcheryakov GV, Meyer M, Meyer W, Mikhailov YV, Mikhasenko M, Mitrofanov E, Mitrofanov N, Miyachi Y, Nagaytsev A, Nerling F, Neyret D, Novy J, Nowak WD, Nukazuka G, Nunes AS, Olshevsky AG, Orlov I, Ostrick M, Panzieri D, Parsamyan B, Paul S, Peng JC, Pereira F, Pesek M, Peshekhonov DV, Pierre N, Platchkov S, Pochozalla J, Polyakov VA, Pretz J, Quaresma M, Quintans C, Ramos S, Regali C, Reicherz G, Riedl C, Roskot M, Rossiyskaya NS, Ryabchikov DI, Rybnikov A, Rychter A, Salac R, Samoylenko VD, Sandacz A, Santos C, Sarkar S, Savin IA, Sawada T, Sbrizzai G, Schiavon P, Schmidt K, Schmieden H, Schonning K, Seder E, Selyunin A, Silva L, Sinha L, Sirtl S, Slunecka M, Smolik J, Sozzi F, Srnka A, Steffen D, Stolarski M, Subrt O, Sulc M, Suzuki H, Szabelski A, Szameitat T, Sznajder R, Takekawa S, Tasevsky M, Tessaro S, Tessarotto F, Thibaud F, Thiel A, Tosello F, Tskhay V, Uhl S, Veloso J, Virius M, Vondra J, Wallner S, Weisrock T, Wilfert M, Windmolders R, ter Wolbeek J, Zarembo K, Zavada P, Zavertyaev M, Zemlyanichkina E, Zhuravlev N, Ziembicki M, Zink A (2017) Multiplicities of charged kaons from deep-inelastic muon scattering off an isoscalar target. *PHYSICS LETTERS B*, 767, 133 - 141. <http://dx.doi.org/10.1016/j.physletb.2017.01.053>

[5] Adolph C, Aghasyan M, Akhunzyanov R, Alexeev MG, Alexeev GD, Amoroso A, Andrieux V, Anfimov NV, Anosov V, Augustyniak W, Austregesilo A, Azevedo CDR, Badelek B, Balestra F,

Barth J, Beck R, Bedfer Y, Bernhard J, Bicker K, Bielert ER, Birsá R, Bisplinghoff J, Bodlak M, Boer M, Bordalo P, Bradamante F, Braun C, Bressan A, Buchele M, Chang WC, Chiosso M, Choi I, Chung SU, Cicuttin A, Crespo ML, Curiel Q, Dalla Torre S, Dasgupta SS, Dasgupta S, Denisov OY, Dhara L, Donskov SV, Doshita N, Duic V, Dunnweber W, Dziewiecki M, Efremov A, Eversheim PD, Eyrich W, Faessler M, Ferrero A, Finger M, Finger M, Fischer H, Franco C, von Hohenesche ND, Friedrich JM, Frolov V, Fuchey E, Gautheron F, Gavrichtchouk OP, Gerassimov S, Giordano F, Gnesi I, Gorzellik M, Grabmuller S, Grasso A, Perdekamp MG, Grube B, Grussenmeyer T, Guskov A, Haas F, Hahne D, von Harrach D, Hashimoto R, Heinsius FH, Heitz R, Herrmann F, Hinterberger F, Horikawa N, d'Hose N, Hsieh CY, Huber S, Ishimoto S, Ivanov A, Ivanshin Y, Iwata T, Jahn R, Jary V, Joosten R, Jorg P, Kabuss E, Ketzer B, Khaustov GV, Khokhlov YA, Kisselev Y, Klein F, Klimaszewski K, Koivuniemi JH, Kolosov VN, Kondo K, Konigsmann K, Konorov I, Konstantinov VF, Kotzinian AM, Kouznetsov OM, Kramer M, Kremser P, Krinner F, Kroumchtein ZV, Kulinich Y, Kunne F, Kurek K, Kurjata RP, Lednev AA, Lehmann A, Levillain M, Levorato S, Lichtenstadt J, Longo R, Maggiora A, Magnon A, Makins N, Makke N, Mallot GK, Marchand C, Marianski B, Martin A, Marzec J, Matousek J, Matsuda H, Matsuda T, Meshcheryakov GV, Meyer W, Michigami T, Mikhailov YV, Mikhasenko M, Miyachi Y, Montuenga P, Nagaytsev A, Nerling F, Neyret D, Nikolaenko VI, Novy J, Nowak WD, Nukazuka G, Nunes AS, Olshevsky AG, Orlov I, Ostrick M, Panzieri D, Parsamyan B, Paul S, Peng JC, Pereira F, Pesek M, Peshekhonov DV, Platchkov S, Pochodzalla J, Polyakov VA, Pretz J, Quaresma M, Quintans C, Ramos S, Regali C, Reicherz G, Riedl C, Roskot M, Rossiyskaya NS, Ryabchikov DI, Rybnikov A, Rychter A, Salac R, Samoylenko VD, Sandacz A, Santos C, Sarkar S, Savin IA, Sawada T, Sbrizzai G, Schiavon P, Schmidt K, Schmieden H, Schonning K, Schopferer S, Seder E, Selyunin A, Shevchenko OY, Silva L, Sinha L, Sirtl S, Slunicka M, Smolik J, Sozzi F, Srnka A, Stolarski M, Sulc M, Suzuki H, Szabelski A, Szameitat T, Sznajder P, Takekawa S, Tasevsky M, Tessaro S, Tessarotto F, Thibaud F, Tosello F, Tskhay V, Uhl S, Veloso J, Virius M, Vondra J, Weisrock T, Wilfert M, ter Wolbeek J, Zarembo K, Zavada P, Zavertyaev M, Zemlyanichkina E, Ziemicki M, Zink A (2017) Leading-order determination of the gluon polarisation from semi-inclusive deep inelastic scattering data. *EUROPEAN PHYSICAL JOURNAL C*, 77, 209.
<http://dx.doi.org/10.1140/epjc/s10052-017-4716-x>

[6] Adolph C, Aghasyan M, Akhunzyanov R, Alexeeva MG, Alexeev GD, Amoroso A, Andrieux V, Anfimov NV, Anosov V, Antoshkin A, Augsten K, Augustyniak W, Austregesilo A, Azevedo CDR, Badelek B, Balestra F, Ball M, Barth J, Beck R, Bedfer Y, Bernhard J, Bicker K, Bielert ER, Birsá R, Bodlak M, Bordalo P, Bradamante F, Braun C, Bressan A, Buchele M, Chang WC, Chatterjee C, Chiosso M, Choi I, Chung SU, Cicuttin A, Crespo ML, Curiel Q, Dalla Torre S, Dasgupta SS, Dasgupta S, Denisov OY, Dhara L, Donskov SV, Doshita N, Dreisbach C, Duic V, Dunnweber W, Dziewiecki M, Efremov A, Eversheim PD, Eyrich W, Faessler M, Ferrero A, Finger M, Finger M, Fischer H, Franco C, von Hohenesche ND, Friedrich JM, Frolov V, Fuchey E, Gautheron F, Gavrichtchouk OP, Gerassimov S, Giarra J, Giordano F, Gnesi I, Gorzellik M, Grabmuller S, Grasso A, Perdekamp MG, Grube B, Grussenmeyer T, Guskov A, Haas F, Hahne D, Hamar G, von Harrach D, Heinsius FH, Heitz R, Herrmann F, Horikawa N, d'Hose N, Hsieh CY, Huber S, Ishimoto S, Ivanov A, Ivanshin Y, Iwata T, Jary V, Joosten R, Jorg P, Kabuss E, Kerbizi A, Ketzer B, Khaustov GV, Khokhlov YA, Kisselev Y, Klein F, Klimaszewski K, Koivuniemi JH, Kolosov VN, Kondo K, Konigsmann K, Konorov I, Konstantinov VF, Kotzinian AM, Kouznetsov OM, Kramer M, Kremser P, Krinner F, Kroumchtein ZV, Kulinich Y, Kunne F, Kurek K, Kurjata RP, Lednev AA,

Lehmann A, Levillain M, Levorato S, Lian YS, Lichtenstadt JJ, Longo R, Maggiora A, Magnon A, Makins N, Makke N, Mallot GK, Marianski B, Martin A, Marzec J, Matousek J, Matsuda H, Matsuda T, Meshcheryakov GV, Meyer M, Meyer W, Mikhailov YV, Mikhasenko M, Mitrofanov E, Mitrofanov N, Miyachi Y, Nagaytsev A, Nerling F, Neyret D, Novy J, Nowak WD, Nukazuka G, Nunes AS, Olshevsky AG, Orlov I, Ostrick M, Panzieri D, Parsamyan B, Paul S, Peng JC, Pereira F, Pesek M, Peshekhonov DV, Pierre N, Platchkov S, Pochodzalla J, Polyakov VA, Pretzd J, Quaresma M, Quintans C, Ramos S, Regali C, Reicherz G, Riedl C, Roskot M, Rogacheva NS, Ryabchikov DI, Rybnikov A, Rychter A, Salac R, Samoylenko VD, Sandacz A, Santos C, Sarkar S, Savin IA, Sawada T, Sbrizzai G, Schiavon P, Schmidt K, Schmieden H, Schonning K, Seder E, Selyunin A, Silva L, Sinha L, Sirtl S, Slunecka M, Smolik J, Srnka A, Steffen D, Stolarski M, Subrtt O, Sulc M, Suzuki H, Szabelski A, Szameitat T, Sznajder P, Takekawa S, Tasevsky M, Tessaro S, Tessarotto F, Thibaud F, Thiel A, Tosello F, Tskhay V, Uhl S, Vauth A, Veloso J, Virius M, Vondra J, Wallner S, Weisrock T, Wilfert M, ter Wolbeek J, Zaremba K, Zavada P, Zavertyaev M, Zemlyanichkina E, Zhuravlev N, Ziembicki M, Zink A (2017) First measurement of the Sivers asymmetry for gluons using SIDIS data. *PHYSICS LETTERS B*, 772, 854 - 864.

<http://dx.doi.org/10.1016/j.physletb.2017.07.018>

[7] Adolph C, Akhunzyanov R, Alexeev MG, Alexeev GD, Amoroso A, Andrieux V, Anosov V, Augustyniak W, Austregesilo A, Azevedo CDR, Badelek B, Balestra F, Barth J, Beck R, Bedfer Y, Bernhard J, Bicker K, Bielert ER, Birsá R, Bisplinghoff J, Bodlak M, Boer M, Bordalo P, Bradamante F, Braun C, Bressan A, Buchele M, Burtin E, Chang WC, Chiosso M, Choi I, Chung SU, Cicuttin A, Crespo ML, Curiel Q, Dalla Torre S, Dasgupta SS, Dasgupta S, Denisov OY, Dhara L, Donskov SV, Doshita N, Duic V, Dunnweber W, Dziewiecki M, Efremov A, Eversheim PD, Eyrich W, Faessler M, Ferrero A, Finger M, Finger M, Fischer H, Franco C, von Hohenesche ND, Friedrich JM, Frolov V, Fuchey E, Gautheron F, Gavrichtchouk OP, Gerassimov S, Giordano F, Gnesi I, Gorzellik M, Grabmuller S, Grasso A, Perdekamp MG, Grube B, Grussenmeyer T, Guskov A, Haas F, Hahne D, von Harrach D, Hashimoto R, Heinsius FH, Herrmann F, Hinterberger F, Horikawa N, d'Hose N, Hsieh CY, Huber S, Ishimoto S, Ivanov A, Ivanshin Y, Iwata T, Jahn R, Jary V, Joosten R, Jorg P, Kabuss E, Ketzer B, Khaustov GV, Khokhlov YA, Kisselev Y, Klein F, Klimaszewski K, Koivuniemi JH, Kolosov VN, Kondo K, Konigsmann K, Konorov I, Konstantinov VF, Kotzinian AM, Kouznetsov O, Kramer M, Kremser P, Krinner F, Kroumchtein ZV, Kuchinski N, Kunne F, Kurek K, Kurjata RP, Lednev AA, Lehmann A, Levillain M, Levorato S, Lichtenstadt J, Longo R, Maggiora A, Magnon A, Makins N, Makke N, Mallot GK, Marchand C, Marianski B, Martin A, Marzec J, Matousek J, Matsuda H, Matsuda T, Meshcheryakov G, Meyer W, Michigami T, Mikhailov YV, Miyachi Y, Montuenga P, Nagaytsev A, Nerling F, Neyret D, Nikolaenko VI, Novy J, Nowak WD, Nukazuka G, Nunes AS, Olshevsky AG, Orlov I, Ostrick M, Panzieri D, Parsamyan B, Paul S, Peng JC, Pereira F, Pesek M, Peshekhonov DV, Platchkov S, Pochodzalla J, Polyakov VA, Pretz J, Quaresma M, Quintans C, Ramos S, Regali C, Reicherz G, Riedl C, Rossiyskaya NS, Ryabchikov DI, Rychter A, Samoylenko VD, Sandacz A, Santos C, Sarkar S, Savin IA, Sbrizzai G, Schiavon P, Schluter T, Schmidt K, Schmieden H, Schonning K, Schopferer S, Selyunin A, Shevchenko OY, Silva L, Sinha L, Sirtl S, Slunecka M, Sozzi F, Srnka A, Stolarski M, Sulc M, Suzuki H, Szabelski A, Szameitat T, Sznajder P, Takekawa S, Tessaro S, Tessarotto F, Thibaud F, Tosello F, Tskhay V, Uhl S, Veloso J, Virius M, Weisrock T, Wilfert M, ter Wolbeek J, Zaremba K, Zavertyaev M, Zemlyanichkina E, Ziembicki

M, Zink A (2017) Resonance production and $\pi\pi$ S-wave in $\pi(-) + p \rightarrow \pi(-) \pi(-) \pi(+)$ + p(recoil) at 190 GeV/c. *PHYSICAL REVIEW D*, 95, 32004. <http://dx.doi.org/10.1103/PhysRevD.95.032004>

[8] Adolphi C, Aghasyan M, Akhunzyanov R, Alexeev MG, Alexeev GD, Amoroso A, Andrieux V, Anfimov NV, Anosov V, Augustyniak W, Austregesilo A, Azevedo CDR, Badelek B, Balestra F, Barth J, Beck R, Bedfer Y, Bernhard J, Bicker K, Bielert ER, Birsá R, Bisplinghoff J, Bodlak M, Boer M, Bordalo P, Bradamante F, Braun C, Bressan A, Buchele M, Chang WC, Chatterjee C, Chiosso M, Choia I, Chung SU, Cicuttin A, Crespo ML, Curiel Q, Dalla Torre S, Dasgupta SS, Dasgupta S, Denisov OY, Dhara L, Donskov SV, Doshita N, Duic V, Dunnweber W, Dziewiecki M, Efremov A, Eversheim PD, Eyrich W, Faessler M, Ferrero A, Finger M, Finger M, Fischer H, Franco C, von Hoheneschen ND, Friedrich JM, Frolov V, Fuchey E, Gautheron F, Gavrichtchouk OP, Gerassimov S, Giordano F, Gnesi I, Gorzellik M, Grabmüller S, Grasso A, Perdekamp MG, Grube B, Grussenmeyer T, Guskov A, Haas F, Hahne D, von Harrach D, Hashimoto R, Heinsius FH, Heitz R, Herrmann F, Hinterberger F, Horikawa N, d'Hosev N, Hsieh CY, Huber S, Ishimoto S, Ivanov A, Ivanshin Y, Iwata T, Jahn R, Jary V, Joosten R, Jorgj P, Kabuss E, Ketzer B, Khaustov GV, Khokhlov YA, Kisselev Y, Klein F, Klimaszewski K, Koivuniemi JH, Kolosov VN, Kondo K, Königsmann K, Konorov I, Konstantinov VF, Kotzinian AM, Kouznetsov OM, Kramer M, Kremser P, Krinner F, Kroumchtein ZV, Kulinich Y, Kunne F, Kurek K, Kurjata RP, Lednev AA, Lehmann A, Levillain M, Levorato S, Lian YS, Lichtenstadt J, Longo R, Maggiora A, Magnon A, Makins N, Makke N, Mallot GK, Marchand C, Marianski B, Martin A, Marzec J, Matousek J, Matsuda H, Matsuda T, Meshcheryakov GV, Meyer M, Meyer W, Michigami T, Mikhailov YV, Mikhasenko M, Mitrofanov E, Mitrofanov N, Miyachi Y, Montuenga P, Nagaytsev A, Nerling F, Neyret D, Nikolaenko VI, Novy J, Nowak WD, Nukazuka G, Nunes AS, Olshevsky AG, Orlov I, Ostrick M, Panzieri D, Parsamyan B, Paul S, Peng JC, Pereira F, Pesek M, Peshekhonov DV, Pierre N, Platchkov S, Pochodzalla J, Polyakov VA, Pretz J, Quaresma M, Quintans C, Ramos S, Regali C, Reicherz G, Riedl C, Roskot M, Ryabchikov DI, Rybnikov A, Rychter A, Salac R, Samoylenko VD, Sandacz A, Santos C, Sarkar S, Savin IA, Sawada T, Sbrizzai G, Schiavon P, Schmidt K, Schmieden H, Schonning K, Schopferer S, Seder E, Selyunin A, Shevchenko OY, Silva L, Sinha L, Sirtl S, Slunicka M, Smolik J, Sozzi F, Srnka A, Steffen D, Stolarski M, Sulc M, Suzuki H, Szabelski A, Szameitat T, Sznajder P, Takekawa S, Tasevsky M, Tessaro S, Tessarotto F, Thibaud F, Tosello F, Tskhay V, Uhl S, Veloso J, Virius M, Vondra J, Wallner S, Weisrock T, Wilfert M, ter Wolbeek J, Zaremba K, Zavada P, Zavertyaev M, Zemlyanichkina E, Ziemicki M, Zink A (2017) Exclusive omega meson muon production on transversely polarised protons. *NUCLEAR PHYSICS B*, 915, 454 - 475. <http://dx.doi.org/10.1016/j.nuclphysb.2016.12.015>

[9] Aghasyan M, Akhunzyanov R, Alexeev GD, Alexeev MG, Amoroso A, Andrieux V, Anfimov NV, Anosov V, Antoshkin A, Augsten K, Augustyniak W, Austregesilo A, Azevedo CDR, Badelek B, Balestra F, Ball M, Barth J, Beck R, Bedfer Y, Bernhard J, Bicker K, Bielert ER, Birsá R, Bodlak M, Bordalo P, Bradamante F, Bressan A, Buchele M, Cchang WC, Chatterjee C, Chiosso M, Choi I, Chung SU, Cicuttin A, Crespo ML, Dalla Torre S, Dasgupta SS, Dasgupta S, Denisov OY, Dhara L, Donskov SV, Doshita N, Dreisbach C, Dunnweber W, Dziewiecki M, Efremov A, Eversheim PD, Faessler M, Ferrero A, Finger M, Finger M, Fischer H, Franco C, von Hohenesche NDF, Friedrich JM, Frolov V, Fuchey E, Gautheron F, Gavrichtchouk OP, Gerassimov S, Giarra J, Giordano F, Gnesi I, Gorzellik M, Grasso A, Perdekamp MG, Grube B, Grussenmeyer T, Guskov A, Hahne D, Hamar G, von Harrach D, Heinsius FH, Heitz R, Herrmann F, Horikawa N, d'Hose N, Hsieh CY,

Huber S, Ishimoto S, Ivanov A, Ivanshin Y, Iwata T, Jary V, Joosten R, Jorg P, Kabuss E, Kerbizi A, Ketzer B, Khaustov GV, Khokhlov YA, Kisselev Y, Klein F, Koivuniemi JH, Kolosov VN, Kondo K, Konigsmann K, Konorov I, Konstantinov VF, Kotzinian AM, Kouznetsov OM, Kral Z, Kramer M, Kremser P, Krinner F, Kroumchtein ZV, Kulinich Y, Kunne F, Kurek K, Kurjata RP, Kveton A, Lednev AA, Levillain M, Levorato S, Lian YS, Lichtenstadt J, Longo R, Maggiora A, Magnon A, Makins N, Makke N, Mallot GK, Marianski B, Martin A, Marzec J, Matousek J, Matsuda H, Matsuda T, Meshcheryakov GV, Meyer M, Meyer W, Mikhailov YV, Mikhasenko M, Mitrofanov E, Mitrofanov N, Miyachi Y, Nagaytsev A, Nerling F, Neyret D, Novy J, Nowak WD, Nukazuka G, Nunes AS, Olshevsky AG, Orlov I, Ostrick M, Panzieri D, Parsamyan B, Paul S, Peng JC, Pereira F, Pesek M, Peshekhonov DV, Pierre N, Platchkov S, Pochodzalla J, Polyakov VA, Pretz J, Quaresma M, Quintans C, Ramos S, Regali C, Reicherz G, Riedl C, Rogacheva NS, Roskot M, Ryabchikov DI, Rybnikov A, Rychter A, Salac R, Samoylenko VD, Sandacz A, Santos C, Sarkar S, Savin IA, Sawada T, Sbrizzai G, Schiavon P, Schmidt K, Schmieden H, Schonning K, Seder E, Selyunin A, Shevchenko OY, Silva L, Sinha L, Sirtl S, Slunecka M, Smolik J, Srnka A, Steffen D, Stolarski M, Subrt O, Sulc M, Suzuki H, Szabelski A, Szameitat T, Sznajder P, Takewaka S, Tasevsky M, Tessaro S, Terca G, Tessarotto F, Thiel A, Tomsa J, Tosello F, Tskhay V, Uhl S, Vauth A, Veloso J, Virius M, Vit M, Vondra J, Wallner S, Weisrock T, Wilfert M, ter Wolbeek J, Zaremba K, Zavada P, Zavertyaev M, Zemlyanichkina E, Zhuravlev N, Ziembicki M (2017) First Measurement of Transverse-Spin-Dependent Azimuthal Asymmetries in the Drell-Yan Process. *PHYSICAL REVIEW LETTERS*, 119, 112002. <http://dx.doi.org/10.1103/PhysRevLett.119.112002>

[10] Aigner W, Bienek O, Desta D, Wiggers H, Stutzmann M, Pereira RN (2017) Optoelectronic properties and depth profile of charge transport in nanocrystal films. *PHYSICAL REVIEW B*, 96, 35404. <http://dx.doi.org/10.1103/PhysRevB.96.035404>

[11] Alikin D, Turygin A, Kholkin A, Shur V (2017) Ferroelectric Domain Structure and Local Piezoelectric Properties of Lead-Free $(\text{K}_{0.5}\text{Na}_{0.5})\text{NbO}_3$ and BiFeO_3 -Based Piezoelectric Ceramics. *MATERIALS*, 10, 47. <http://dx.doi.org/10.3390/ma10010047>

[12] Alikin DO, Turygin AP, Walker J, Bencan A, Malic B, Rojac T, Shur VY, Kholkin AL (2017) The effect of phase assemblages, grain boundaries and domain structure on the local switching behavior of rare-earth modified bismuth ferrite ceramics. *ACTA MATERIALIA*, 125, 265 - 273. <http://dx.doi.org/10.1016/j.actamat.2016.11.063>

[13] Almeida FA, Corker J, Ferreira N, Neto MA, Fan MZ, Beyrichen H, Caps R (2017) Alternative low cost based core systems for vacuum insulation panels. *CIENCIA & TECNOLOGIA DOS MATERIAIS*, 29, E151 - E156. <http://dx.doi.org/10.1016/j.ctmat.2016.10.002>

[14] Ambrosio S, Marques JF, Santos L, Doutor C (2017) Higher Education Institutions and International Students' Hindrances: A Case of Students From the African Portuguese-Speaking Countries at Two European Portuguese Universities. *JOURNAL OF INTERNATIONAL STUDENTS*, 7, 367 - 394.

[15] Ananias D, Firmino ADG, Mendes RF, Paz FAA, Nolasco M, Carlos LD, Rocha J (2017) Excimer Formation in a Terbium Metal-Organic Framework Assists Luminescence Thermometry. *CHEMISTRY OF MATERIALS*, 29, 9547 - 9554. <http://dx.doi.org/10.1021/acs.chemmater.7b03817>

- [16] Antunes I, Amador U, Alves A, Correia MR, Ritter C, Frade JR, Perez-Coll D, Mather GC, Fagg DP (2017) Structure and Electrical -Transport Relations in Ba(Zr,Pr)O₃-delta Perovskites. *INORGANIC CHEMISTRY*, 56, 9120 - 9131. <http://dx.doi.org/10.1021/acs.inorgchem.7b01128>
- [17] Araujo MP, Soares OSGP, Fernandes AJS, Pereira MFR, Freire C (2017) Tuning the surface chemistry of graphene flakes: new strategies for selective oxidation. *RSC ADVANCES*, 7, 14290 - 14301. <http://dx.doi.org/10.1039/c6ra28868e>
- [18] Arosio V, Caccia M, Castro IF, Correia PMM, Mattone C, Moutinho LM, Santoro R, Silva ALM, Veloso JFCA (2017) easyPET: a novel concept for an affordable tomographic system. *NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT*, 845, 644 - 647. <http://dx.doi.org/10.1016/j.nima.2016.05.004>
- [19] Ashok J, Purnachand N, Kumar JS, Reddy MS, Suresh B, Graca MPF, Veeraiah N (2017) Studies on dielectric dispersion, relaxation kinetics and a.c. conductivity of Na₂O-CuO-SiO₂ glasses mixed with Bi₂O₃-Influence of redox behavior of copper ions. *JOURNAL OF ALLOYS AND COMPOUNDS*, 696, 1260 - 1268. <http://dx.doi.org/10.1016/j.jallcom.2016.12.080>
- [20] Auclair-Desrotour P, Laskar J, Mathis S, Correia ACM (2017) The rotation of planets hosting atmospheric tides: from Venus to habitable super-Earths. *ASTRONOMY & ASTROPHYSICS*, 603, A108. <http://dx.doi.org/10.1051/0004-6361/201628701>
- [21] Azevedo A, Lillebo AI, Silva JLE, Dias JM (2017) Intertidal seagrass models: Insights towards the development and implementation of a desiccation module. *ECOLOGICAL MODELLING*, 354, 20 - 25. <http://dx.doi.org/10.1016/j.ecolmodel.2017.03.004>
- [22] Azevedo SL, Holz T, Rodrigues J, Monteiro T, Costa FM, Soares AMVM, Loureiro S (2017) A mixture toxicity approach to predict the toxicity of Ag decorated ZnO nanomaterials. *SCIENCE OF THE TOTAL ENVIRONMENT*, 579, 337 - 344. <http://dx.doi.org/10.1016/j.scitotenv.2016.11.095>
- [23] Baghizadeh A, Vieira JM, Stroppa DG, Vaghefi PM, Graca MP, Amaral JS, Willinger MG, Amaral VS (2017) Interaction of multiferroic properties and interfaces in hexagonal LuMnO₃ ceramics. *JOURNAL OF PHYSICS D-APPLIED PHYSICS*, 50, 55304. <http://dx.doi.org/10.1088/1361-6463/50/5/055304>
- [24] Baghizadeh A, Vieira JM, Vaghefi PM, Willinger MG, Amaral VS (2017) Development of ferroelectric domains and topological defects in vacancy doped ceramics of h-LuMnO₃. *JOURNAL OF APPLIED PHYSICS*, 122, 44102. <http://dx.doi.org/10.1063/1.4996349>
- [25] Balabhadra S, Debasu ML, Brites CDS, Ferreira RAS, Carlos LD (2017) A cost-effective quantum yield measurement setup for upconverting nanoparticles. *JOURNAL OF LUMINESCENCE*, 189, 64 - 70. <http://dx.doi.org/10.1016/j.jlumin.2017.03.054>
- [26] Balabhadra S, Debasu ML, Brites CDS, Ferreira RAS, Carlos LD (2017) Upconverting Nanoparticles Working As Primary Thermometers In Different Media. *JOURNAL OF PHYSICAL CHEMISTRY C*, 121, 13962 - 13968. <http://dx.doi.org/10.1021/acs.jpcc.7b04827>

- [27] Balke N, Jesse S, Carmichael B, Okatan MB, Kravchenko II, Kalinin SV, Tselev A (2017) Quantification of in-contact probe-sample electrostatic forces with dynamic atomic force microscopy. *NANOTECHNOLOGY*, 28, 65704. <http://dx.doi.org/10.1088/1361-6528/aa5370>
- [28] Barbosa CDES, da Luz LL, Paz FAA, Malta OL, Rodrigues MO, Junior SA, Ferreira RAS, Carlos LD (2017) Site-selective Eu(III) spectroscopy of highly efficient luminescent mixed-metal Pb(II)/Eu(III) coordination polymers. *RSC ADVANCES*, 7, 6093 - 6101. <http://dx.doi.org/10.1039/c6ra27850g>
- [29] Barbosa P, Campos J, Turygin A, Shur VY, Kholkin A, Barros-Timmons A, Figueiredo FM (2017) Piezoelectric poly(lactide) stereocomplexes with a cholinium organic ionic plastic crystal. *JOURNAL OF MATERIALS CHEMISTRY C*, 5, 12134 - 12142. <http://dx.doi.org/10.1039/c7tc03484a>
- [30] Berera A, Buniy RV, Kephart TW, Pas H, Rosa JG (2017) Knotty inflation and the dimensionality of spacetime. *EUROPEAN PHYSICAL JOURNAL C*, 77, 682. <http://dx.doi.org/10.1140/epjc/s10052-017-5253-3>
- [31] Blazquez-Salcedo JL, Kunz J, Navarro-Lerida F, Radu E (2017) AdS(5) magnetized solutions in minimal gauged supergravity. *PHYSICS LETTERS B*, 771, 52 - 58. <http://dx.doi.org/10.1016/j.physletb.2017.05.014>
- [32] Blazquez-Salcedo JL, Kunz J, Navarro-Lerida F, Radu E (2017) Charged rotating black holes in Einstein-Maxwell-Chern-Simons theory with a negative cosmological constant. *PHYSICAL REVIEW D*, 95, 64018. <http://dx.doi.org/10.1103/PhysRevD.95.064018>
- [33] Boekholt TCN, Stutz AM, Fellhauer M, Schleicher DRG, Carrillo DRM (2017) Dynamical ejections of stars due to an accelerating gas filament. *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*, 471, 3590 - 3598. <http://dx.doi.org/10.1093/mnras/stx1821>
- [34] Boukheir S, Len A, Fuzi J, Kenderesi V, Achour ME, Eber N, Costa LC, Oueriagli A, Outzourhit A (2017) Structural characterization and electrical properties of carbon nanotubes/epoxy polymer composites. *JOURNAL OF APPLIED POLYMER SCIENCE*, 134, 44514. <http://dx.doi.org/10.1002/app.44514>
- [35] Boukheir S, Len A, Fuzi J, Kenderesi V, Achour ME, Eber N, Costa LC, Oueriagli A, Outzourhit A (2017) Fractal structure and temperature-dependent electrical study of carbon nanotubes/epoxy polymer composites. *SPECTROSCOPY LETTERS*, 50, 183 - 188. <http://dx.doi.org/10.1080/00387010.2016.1262427>
- [36] Bouknaitir I, Aribou N, Kassim SAE, El Hasnaoui M, Melo BMG, Achour ME, Costa LC (2017) Electrical properties of conducting polymer composites: Experimental and modeling approaches. *SPECTROSCOPY LETTERS*, 50, 196 - 199. <http://dx.doi.org/10.1080/00387010.2017.1282522>
- [37] Brammertz G, Vermang B, ElAnzeery H, Sahayaraj S, Ranjbar S, Meuris M, Poortmans J (2017) Fabrication of ternary and quaternary chalcogenide compounds based on Cu, Zn, Sn and Si for thin film photovoltaic applications. *PHYSICA STATUS SOLIDI C: CURRENT TOPICS IN*

SOLID STATE PHYSICS, VOL 14 NO 6, 14, UNSP 1600162.

<http://dx.doi.org/10.1002/pssc.201600162>

[38] Brihaye Y, Herdeiro C, Radu E, Tchrakian DH (2017) Skymions, Skyrme stars and black holes with Skyrme hair in five spacetime dimension. *JOURNAL OF HIGH ENERGY PHYSICS*, 37.

[http://dx.doi.org/10.1007/JHEP11\(2017\)037](http://dx.doi.org/10.1007/JHEP11(2017)037)

[39] Brihaye Y, Radu E (2017) Remarks on the Taub-NUT solution in Chern-Simons modified gravity. *PHYSICS LETTERS B*, 764, 300 - 305. <http://dx.doi.org/10.1016/j.physletb.2016.11.055>

[40] Brites CDS, Fuertes MC, Angelome PC, Martinez ED, Lima PP, Soler-Illia GJAA, Carlos LD (2017) Tethering Luminescent Thermometry and Plasmonics: Light Manipulation to Assess Real-Time Thermal Flow in Nanoarchitectures. *NANO LETTERS*, 17, 4746 - 4752.

<http://dx.doi.org/10.1021/acs.nanolett.7b01433>

[41] Bystrov VS, Bdikin IK, Silibin M, Karpinsky D, Kopyl S, Paramonova EV, Goncalves G (2017) Molecular modeling of the piezoelectric properties of ferroelectric composites containing polyvinylidene fluoride (PVDF) and either graphene or graphene oxide. *JOURNAL OF MOLECULAR MODELING*, 23, 128. <http://dx.doi.org/10.1007/s00894-017-3291-2>

[42] Bystrov VS, Bdikin IK, Silibin MV, Karpinsky DV, Kopyl SA, Goncalves G, Sapronova AV, Kuznetsova T, Bystrova VV (2017) Graphene/graphene oxide and polyvinylidene fluoride polymer ferroelectric composites for multifunctional applications. *FERROELECTRICS*, 509, 124 - 142. <http://dx.doi.org/10.1080/00150193.2017.1295745>

[43] Bystrov VS, Paramonova EV, Dekhtyar YD, Bystrova AV, Pullar RC, Kopyl S, Tobaldi DM, Piccirillo C, Avakyan LA, Coutinho J (2017) Surface modified hydroxyapatites with various functionalized nanostructures: Computational studies of the vacancies in HAp. *FERROELECTRICS*, 509, 105 - 112. <http://dx.doi.org/10.1080/00150193.2017.1294436>

[44] Camargo-Molina JE, Morais AP, Ordell A, Pasechnik R, Sampaio MOP, Wessen J (2017) Reviving trinification models through an E-6-extended supersymmetric GUT. *PHYSICAL REVIEW D*, 95, 75031. <http://dx.doi.org/10.1103/PhysRevD.95.075031>

[45] Cao BS, Rino L, Wu JL, He YY, Zhang ZY, Feng ZQ, Dong B (2017) Temperature- and humidity-sensing properties of ZnO:Yb/Er nanocrystal clusters synthesized by a facile microwave-assisted approach. *SENSORS AND ACTUATORS A-PHYSICAL*, 268, 110 - 116. <http://dx.doi.org/10.1016/j.sna.2017.11.033>

[46] Carreira JFC, Ben Sedrine N, Monteiro T, Rino L (2017) YAG:Dy - Based single white light emitting phosphor produced by solution combustion synthesis. *JOURNAL OF LUMINESCENCE*, 183, 251 - 258. <http://dx.doi.org/10.1016/j.jlumin.2016.11.017>

[47] Carvalho D, Martins H, Marta-Almeida M, Rocha A, Borrego C (2017) Urban resilience to future urban heatwaves under a climate change scenario: A case study for Porto urban area (Portugal). *URBAN CLIMATE*, 19, 1 - 27. <http://dx.doi.org/10.1016/j.uclim.2016.11.005>

[48] Carvalho D, Rocha A, Gomez-Gesteira M, Santos CS (2017) Offshore winds and wind energy production estimates derived from ASCAT, OSCAT, numerical weather prediction

models and buoys - A comparative study for the Iberian Peninsula Atlantic coast. *RENEWABLE ENERGY*, 102, 433 - 444. <http://dx.doi.org/10.1016/j.renene.2016.10.063>

[49] Carvalho D, Rocha A, Gomez-Gesteira M, Santos CS (2017) Potential impacts of climate change on European wind energy resource under the CMIP5 future climate projections. *RENEWABLE ENERGY*, 101, 29 - 40. <http://dx.doi.org/10.1016/j.renene.2016.08.036>

[50] Carvalho TT, Figueiras FG, Pereira SMS, Fernandes JRA, de la Cruz JP, Tavares PB, Almeida A, Moreira JA (2017) Deposition parameters and annealing key role in setting structural and polar properties of Bi_{0.9}La_{0.1}Fe_{0.9}Mn_{0.1}O₃ thin films. *JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS*, 28, 12690 - 12697. <http://dx.doi.org/10.1007/s10854-017-7094-0>

[51] Cerqueira MF, Vieira LG, Alves A, Correia R, Huber M, Andreev A, Bonanni A, Vasilevskiy MI (2017) Raman and IR-ATR spectroscopy studies of heteroepitaxial structures with a GaN: C top layer. *JOURNAL OF PHYSICS D-APPLIED PHYSICS*, 50, 365103. <http://dx.doi.org/10.1088/1361-6463/aa7c4b>

[52] Cong SR, Hadipour A, Sugahara T, Wei TT, Jiu JT, Ranjbar S, Hirose Y, Karakawa M, Nagao S, Aernouts T, Suganuma K (2017) Modifying the valence state of molybdenum in the efficient oxide buffer layer of organic solar cells via a mild hydrogen peroxide treatment. *JOURNAL OF MATERIALS CHEMISTRY C*, 5, 889 - 895. <http://dx.doi.org/10.1039/c6tc04461a>

[53] Cornelius TW, Mocuta C, Escoubas S, Merabet A, Texier M, Lima EC, Araujo EB, Kholkin AL, Thomas O (2017) Piezoelectric response and electrical properties of Pb(Zr_{1-x}Ti_x)O₃ thin films: The role of imprint and composition. *JOURNAL OF APPLIED PHYSICS*, 122, 164104. <http://dx.doi.org/10.1063/1.4994939>

[54] Correia JRCCC, Martins CJAP (2017) General purpose graphics-processing-unit implementation of cosmological domain wall network evolution. *PHYSICAL REVIEW E*, 96, 43310. <http://dx.doi.org/10.1103/PhysRevE.96.043310>

[55] Costa R, Sampaio MOP, Santos R (2017) NLO electroweak corrections in general scalar singlet models. *JOURNAL OF HIGH ENERGY PHYSICS*, 81. [http://dx.doi.org/10.1007/JHEP07\(2017\)081](http://dx.doi.org/10.1007/JHEP07(2017)081)

[56] Costa RM, Belo JH, Barbosa MB, Algarabel PA, Magen C, Morellon L, Ibarra MR, Goncalves JN, Fortunato NM, Amaral JS, Araujo JP, Pereira AM (2017) On the nature of the (de)coupling of the magnetostructural transition in Er₅Si₄. *PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS*, 254, 1700143. <http://dx.doi.org/10.1002/pssb.201700143>

[57] Coutinho J, Torres VJB, Demmouche K, Oberg S (2017) Theory of the carbon vacancy in 4H-SiC: Crystal field and pseudo-Jahn-Teller effects. *PHYSICAL REVIEW B*, 96, 174105. <http://dx.doi.org/10.1103/PhysRevB.96.174105>

[58] Cruz H, California A, Pinto A, Fonseca J, Gomes J, Palmeira-de-Oliveira A, Martinez-de-Oliveira J, Pereira L (2017) Development of e-nose biosensors based on organic semiconductors towards low-cost health care diagnosis in gynecological diseases. *MATERIALS TODAY-PROCEEDINGS*, 4, 11544 - 11553.

- [59] Cunha PVP, Berti E, Herdeiro CAR (2017) Light-Ring Stability for Ultracompact Objects. *PHYSICAL REVIEW LETTERS*, 119, 251102. <http://dx.doi.org/10.1103/PhysRevLett.119.251102>
- [60] Cunha PVP, Font JA, Herdeiro C, Radu E, Sanchis-Gual N, Zilhao M (2017) Lensing and dynamics of ultracompact bosonic stars. *PHYSICAL REVIEW D*, 96, 104040. <http://dx.doi.org/10.1103/PhysRevD.96.104040>
- [61] Cunha PVP, Herdeiro CAR, Kleihaus B, Kunz J, Radu E (2017) Shadows of Einstein-dilaton-Gauss-Bonnet black holes. *PHYSICS LETTERS B*, 768, 373 - 379. <http://dx.doi.org/10.1016/j.physletb.2017.03.020>
- [62] Cunha PVP, Herdeiro CAR, Radu E (2017) Fundamental photon orbits: Black hole shadows and spacetime instabilities. *PHYSICAL REVIEW D*, 96, 24039. <http://dx.doi.org/10.1103/PhysRevD.96.024039>
- [63] Darnley MJ, Hounsell R, Godon P, Perley DA, Henze M, Kuin NPM, Williams BF, Williams SC, Bode MF, Harman DJ, Hornoch K, Link M, Ness JU, Ribeiro VARM, Sion EM, Shafter AW, Shara MM (2017) Inflows, Outflows, and a Giant Donor in the Remarkable Recurrent Nova M31N 2008-12a?-Hubble Space Telescope Photometry of the 2015 Eruption. *ASTROPHYSICAL JOURNAL*, 849, 96. <http://dx.doi.org/10.3847/1538-4357/aa9062>
- [64] Darnley MJ, Hounsell R, Godon P, Perley DA, Henze M, Kuin NPM, Williams BF, Williams SC, Bode MF, Harman DJ, Hornoch K, Link M, Ness JU, Ribeiro VARM, Sion EM, Shafter AW, Shara MM (2017) No Neon, but Jets in the Remarkable Recurrent Nova M31N 2008-12a?-Hubble Space Telescope Spectroscopy of the 2015 Eruption. *ASTROPHYSICAL JOURNAL*, 847, 35. <http://dx.doi.org/10.3847/1538-4357/aa8867>
- [65] Delisle JB, Correia ACM, Leleu A, Robutel P (2017) Spin dynamics of close-in planets exhibiting large transit timing variations. *ASTRONOMY & ASTROPHYSICS*, 605, A37. <http://dx.doi.org/10.1051/0004-6361/201730755>
- [66] Devesa S, Kumar JS, Graca MPF, Soares MJ, Costa LC (2017) Photoluminescence in europium ion-substituted bismuth niobate particles. *SPECTROSCOPY LETTERS*, 50, 285 - 288. <http://dx.doi.org/10.1080/00387010.2017.1321020>
- [67] Diaz CAR, Leitao C, Marques CA, Domingues MF, Alberto N, Pontes MJ, Frizera A, Ribeiro MRN, Andre PSB, Antunes PFC (2017) Low-Cost Interrogation Technique for Dynamic Measurements with FBG-Based Devices. *SENSORS*, 17, 2414. <http://dx.doi.org/10.3390/s17102414>
- [68] Domingues MF, Tavares C, Leitao C, Frizera-Neto A, Alberto N, Marques C, Radwan A, Rodriguez J, Postolache O, Rocon E, Andre P, Antunes P (2017) Insole optical fiber Bragg grating sensors network for dynamic vertical force monitoring. *JOURNAL OF BIOMEDICAL OPTICS*, 22, 91507. <http://dx.doi.org/10.1117/1.JBO.22.9.091507>
- [69] Duarte B, Vaz N, Valentim JM, Dias JM, Silva H, Marques JC, Sleimi N, Cacador I (2017) Revisiting the outwelling hypothesis: Modelling salt marsh detrital metal exports under

extreme climatic events. *MARINE CHEMISTRY*, 191, 24 - 33.

<http://dx.doi.org/10.1016/j.marchem.2016.12.002>

[70] Esin AA, Alikin DO, Turygin AP, Abramov AS, Hrescak J, Walker J, Rojac T, Bencan A, Malic B, Kholkin AL, Shur VY (2017) Dielectric relaxation and charged domain walls in (K,Na)NbO₃-based ferroelectric ceramics. *JOURNAL OF APPLIED PHYSICS*, 121, 74101.

<http://dx.doi.org/10.1063/1.4975341>

[71] Facao M, Carvalho MI (2017) Plain and oscillatory solitons of the cubic complex Ginzburg-Landau equation with nonlinear gradient terms. *PHYSICAL REVIEW E*, 96, 42220.

<http://dx.doi.org/10.1103/PhysRevE.96.042220>

[72] Falcao BP, Leitao JP, Correia MR, Soares MR, Wiggers H, Cantarero A, Pereira RN (2017) Light-induced nonthermal population of optical phonons in nanocrystals. *PHYSICAL REVIEW B*, 95, 115439. <http://dx.doi.org/10.1103/PhysRevB.95.115439>

[73] Faria BF, Mostardinha P, de Abreu FV (2017) Can the Immune System Perform a t-Test?. *PLOS ONE*, 12, e0169464. <http://dx.doi.org/10.1371/journal.pone.0169464>

[74] Fausto AMF, Lopes MC, de Sousa MC, Furquim TAC, Mol AW, Velasco FG (2017) Optimization of Image Quality and Dose in Digital Mammography. *JOURNAL OF DIGITAL IMAGING*, 30, 185 - 196. <http://dx.doi.org/10.1007/s10278-016-9928-3>

[75] Felbeck T, Moss S, Botas AMP, Lezhnina MM, Ferreira RAS, Carlos LD, Kynast UH (2017) Monitoring of nanoclay-protein adsorption isotherms via fluorescence techniques. *COLLOIDS AND SURFACES B-BIOINTERFACES*, 157, 373 - 380.

<http://dx.doi.org/10.1016/j.colsurfb.2017.06.005>

[76] Fernandes M, Cardoso MA, Rodrigues LC, Silva MM, Ferreira RAS, Carlos LD, Nunes SC, Bermudez VD (2017) d-Poly(e-caprolactone) (530)/siloxane biohybrid films doped with protic ionic liquids. *JOURNAL OF ELECTROANALYTICAL CHEMISTRY*, 799, 249 - 256.

<http://dx.doi.org/10.1016/j.jelechem.2017.06.009>

[77] Ferreira BC, Sa-Couto P, Khouri L, Lopes MD (2017) Biological dose-escalated definitive radiation therapy in head and neck cancer. *BRITISH JOURNAL OF RADIOLOGY*, 90, 20160477.

<http://dx.doi.org/10.1259/bjr.20160477>

[78] Ferreira HRC, Herdeiro CAR (2017) Stationary scalar clouds around a BTZ black hole. *PHYSICS LETTERS B*, 773, 129 - 134. <http://dx.doi.org/10.1016/j.physletb.2017.08.017>

[79] Ferreira MFS, Castro-Camus E, Ottaway DJ, Lopez-Higuera JM, Feng X, Jin W, Jeong Y, Picque N, Tong LM, Reinhard BM, Pellegrino PM, Mendez A, Diem M, Vollmer F, Quan QM (2017) Roadmap on optical sensors. *JOURNAL OF OPTICS*, 19, 83001.

<http://dx.doi.org/10.1088/2040-8986/aa7419>

[80] Ferreira MS, Bierlich J, Kobelke J, Santos JL, Frazao O (2017) Fabry-Perot interferometer based on array of microspheres for temperature sensing. *THIRD INTERNATIONAL CONFERENCE ON APPLICATIONS OF OPTICS AND PHOTONICS*, 10453, UNSP 1045321.

<http://dx.doi.org/10.1117/12.2275658>

- [81] Ferreira NM, Ferro MC, Graca MPF, Costa FM (2017) Effect of laser irradiation on lithium niobate powders. *CERAMICS INTERNATIONAL*, 43, 2504 - 2510. <http://dx.doi.org/10.1016/j.ceramint.2016.11.051>
- [82] Ferreira NM, Kovalevsky AV, Valente MA, Waerenborgh JC, Frade JR, Costa FM (2017) Structural and redox effects in iron-doped magnesium aluminosilicates. *JOURNAL OF CRYSTAL GROWTH*, 457, 19 - 23. <http://dx.doi.org/10.1016/j.jcrysgro.2016.01.039>
- [83] Figueiras FG, Karpinsky D, Tavares PB, Goncalves JN, Yanez-Vilar S, Dos Santos AFM, Franz A, Tovar M, Moreira JA, Amaral VS (2017) Novel multiferroic state and ME enhancement by breaking the AFM frustration in LuMn1-xO3. *PHYSICAL CHEMISTRY CHEMICAL PHYSICS*, 19, 1335 - 1341. <http://dx.doi.org/10.1039/c6cp07682c>
- [84] Firmino ADG, Mendes RF, Ananias D, Vilela SMF, Carlos LD, Tome JPC, Rocha J, Paz FAA (2017) Microwave Synthesis of a photoluminescent Metal-Organic Framework based on a rigid tetraphosphonate linker. *INORGANICA CHIMICA ACTA*, 455, 584 - 594. <http://dx.doi.org/10.1016/j.ica.2016.05.029>
- [85] Franchini N, Pani P, Maselli A, Gualtieri L, Herdeiro CAR, Radu E, Ferrari V (2017) Constraining black holes with light boson hair and boson stars using epicyclic frequencies and quasiperiodic oscillations. *PHYSICAL REVIEW D*, 95, 124025. <http://dx.doi.org/10.1103/PhysRevD.95.124025>
- [86] Gama N, Costa LC, Amaral V, Ferreira A, Barros-Timmons A (2017) Insights into the physical properties of biobased polyurethane/expanded graphite composite foams. *COMPOSITES SCIENCE AND TECHNOLOGY*, 138, 24 - 31. <http://dx.doi.org/10.1016/j.compscitech.2016.11.007>
- [87] Gaspar AS, Wagner FE, Amaral VS, Lima SAC, Khomchenko VA, Santos JG, Costa BFO, Duraes L (2017) Development of a biocompatible magnetic nanofluid by incorporating SPIONs in Amazonian oils. *SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY*, 172, 135 - 146. <http://dx.doi.org/10.1016/j.saa.2016.04.022>
- [88] Gautam S, Shandilya P, Priya B, Singh VP, Raizada P, Rai R, Valente MA, Singh P (2017) Superparamagnetic MnFe2O4 dispersed over graphitic carbon sand composite and bentonite as magnetically recoverable photocatalyst for antibiotic mineralization. *SEPARATION AND PURIFICATION TECHNOLOGY*, 172, 498 - 511. <http://dx.doi.org/10.1016/j.seppur.2016.09.006>
- [89] Gieseke F, Bloemen S, van den Bogaard C, Heskes T, Kindler J, Scalzo RA, Ribeiro VARM, van Roestel J, Groot PJ, Yuan F, Moller A, Tucker BE (2017) Convolutional neural networks for transient candidate vetting in large-scale surveys. *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*, 472, 3101 - 3114. <http://dx.doi.org/10.1093/mnras/stx2161>
- [90] Giuppone CA, Correia ACM (2017) Lidov-Kozai stability regions in the alpha Centauri system. *ASTRONOMY & ASTROPHYSICS*, 605, A124. <http://dx.doi.org/10.1051/0004-6361/201730491>

- [91] Goltsev AV, Timar G, Mendes JFF (2017) Sensitivity of directed networks to the addition and pruning of edges and vertices. *PHYSICAL REVIEW E*, 96, 22317. <http://dx.doi.org/10.1103/PhysRevE.96.022317>
- [92] Gomes C, Rosa JG, Bertolami O (2017) Inflation in non-minimal matter-curvature coupling theories. *JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS*, 21. <http://dx.doi.org/10.1088/1475-7516/2017/06/021>
- [93] Goncalves JN, Fortunato NM, Amaral JS, Amaral VS (2017) Volume dependence of magnetic properties in Co₂Cr_{1-x}Y_xGa (Y= Ti-Ni) Heusler alloys: A first-principles study. *JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS*, 428, 362 - 367. <http://dx.doi.org/10.1016/j.jmmm.2016.12.102>
- [94] Gossart A, Souverijns N, Gorodetskaya IV, Lhermitte S, Lenaerts JTM, Schween JH, Mangold A, Laffineur Q, van Lipzig NPM (2017) Blowing snow detection from ground-based ceilometers: application to East Antarctica. *CRYOSPHERE*, 11, 2755 - 2772. <http://dx.doi.org/10.5194/tc-11-2755-2017>
- [95] Guillaussier A, Yu YX, Voggu VR, Aigner W, Cabezas CS, Houck DW, Shah T, Smities DM, Pereira RN, Stutzmann M, Korgel BA (2017) Silicon Nanocrystal Superlattice Nucleation and Growth. *LANGMUIR*, 33, 13068 - 13076. <http://dx.doi.org/10.1021/acs.langmuir.7b02710>
- [96] Haas H, Sauer SPA, Hemmingsen L, Kello V, Zhao PW (2017) Quadrupole moments of Cd and Zn nuclei: When solid-state, molecular, atomic, and nuclear theory meet. *EPL*, 117, 62001. <http://dx.doi.org/10.1209/0295-5075/117/62001>
- [97] Hara NC, Boue G, Laskar J, Correia ACM (2017) Radial velocity data analysis with compressed sensing techniques. *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*, 464, 1220 - 1246. <http://dx.doi.org/10.1093/mnras/stw2261>
- [98] Herdeiro C, Paturyan V, Radu E, Tchrakian DH (2017) Reissner-Nordstrom black holes with non-Abelian hair. *PHYSICS LETTERS B*, 772, 63 - 69. <http://dx.doi.org/10.1016/j.physletb.2017.06.041>
- [99] Herdeiro CAR, Pombo AM, Radu E (2017) Asymptotically flat scalar, Dirac and Proca stars: Discrete vs. continuous families of solutions. *PHYSICS LETTERS B*, 773, 654 - 662. <http://dx.doi.org/10.1016/j.physletb.2017.09.036>
- [100] Herdeiro CAR, Radu E (2017) Dynamical Formation of Kerr Black Holes with Synchronized Hair: An Analytic Model. *PHYSICAL REVIEW LETTERS*, 119, 261101. <http://dx.doi.org/10.1103/PhysRevLett.119.261101>
- [101] Ivanov M, Bak O, Kopyl S, Vasilev S, Zelenovskiy P, Shur V, Gruverman A, Kholkin A (2017) High Resolution Piezoresponse Force Microscopy Study of Self-Assembled Peptide Nanotubes. *MRS ADVANCES*, 2, 63 - 69. <http://dx.doi.org/10.1557/adv.2016.658>
- [102] Johnston K, Schell J, Correia JG, Deicher M, Gunnlaugsson HP, Fenta AS, David-Bosne E, Costa ARG, Lupascu DC (2017) The solid state physics programme at ISOLDE: recent

developments and perspectives. *JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS*, 44, 104001. <http://dx.doi.org/10.1088/1361-6471/aa81ac>

[103] Kannappan P, Ben Sedrine N, Teixeira JP, Soares MR, Falcao BP, Correia MR, Cifuentes N, Viana ER, Moreira MVB, Ribeiro GM, de Oliveira AG, Gonzalez JC, Leitao JP (2017) Substrate and Mg doping effects in GaAs nanowires. *BEILSTEIN JOURNAL OF NANOTECHNOLOGY*, 8, 2126 - 2138. <http://dx.doi.org/10.3762/bjnano.8.212>

[104] Kiselev DA, Neradovskaya EA, Turygin AP, Fedorovykh VV, Shikhova VA, Neradovskiy MM, Sternberg A, Shur VY, Kholkin AL (2017) Effect of surface disorder on the domain structure of PLZT ceramics. *FERROELECTRICS*, 509, 19 - 26. <http://dx.doi.org/10.1080/00150193.2017.1291385>

[105] Kovalevsky AV, Aguirre MH, Populoh S, Patricio SG, Ferreira NM, Mikhalev SM, Fagg DP, Weidenkaff A, Frade JR (2017) Designing strontium titanate-based thermoelectrics: insight into defect chemistry mechanisms. *JOURNAL OF MATERIALS CHEMISTRY A*, 5, 3909 - 3922. <http://dx.doi.org/10.1039/c6ta09860f>

[106] Krishna R, Fernandes DM, Marinoiu A, Ventura J, Freire C, Titus E (2017) Facile synthesis of well dispersed Pd nanoparticles on reduced graphene oxide for electrocatalytic oxidation of formic acid. *INTERNATIONAL JOURNAL OF HYDROGEN ENERGY*, 42, 23639 - 23646. <http://dx.doi.org/10.1016/j.ijhydene.2017.04.263>

[107] Krishna R, Titus E (2017) Nickel induced re-structuring of 2D graphene to 1D graphene nanotubes: Role of radical hydrogen in catalyst assisted growth. *APPLIED SURFACE SCIENCE*, 424, 87 - 92. <http://dx.doi.org/10.1016/j.apsusc.2017.02.060>

[108] Krishna R, Titus E (2017) Ni nanoparticles intercalated LTA-type nanozeolite (KZ) supported on reduced graphene oxide for 4-nitrophenol reduction. *INTERNATIONAL JOURNAL OF HYDROGEN ENERGY*, 42, 23664 - 23669. <http://dx.doi.org/10.1016/j.ijhydene.2017.04.262>

[109] Kudrin AV, Danilov YA, Lesnikov VP, Dorokhin MV, Vikhrova OV, Pavlov DA, Usov YV, Antonov IN, Kriukov RN, Alaferdov AV, Sobolev NA (2017) High-temperature intrinsic ferromagnetism in the (In, Fe)Sb semiconductor. *JOURNAL OF APPLIED PHYSICS*, 122, 183901. <http://dx.doi.org/10.1063/1.5010191>

[110] Kumar M, Gomes J, Pinto A, Pereira L (2017) Electro-thermal effects in large area White-Organic Light Emitting Diodes. *THIRD INTERNATIONAL CONFERENCE ON APPLICATIONS OF OPTICS AND PHOTONICS*, 10453, UNSP 1045335. <http://dx.doi.org/10.1117/12.2276382>

[111] Kumar S, Coondoo I, Rao A, Lu BH, Kuo YK, Kholkin AL, Panwar N (2017) Impact of low level praseodymium substitution on the magnetic properties of YCrO₃ orthochromites. *PHYSICA B-CONDENSED MATTER*, 510, 104 - 108. <http://dx.doi.org/10.1016/j.physb.2017.01.003>

[112] Kumar S, Coondoo I, Vasundhara M, Kumar S, Kholkin AL, Panwar N (2017) Structural, magnetic, magnetocaloric and specific heat investigations on Mn doped PrCrO₃

orthochromites. *JOURNAL OF PHYSICS-CONDENSED MATTER*, 29, 195802.

<http://dx.doi.org/10.1088/1361-648X/aa666c>

[113] Kumar S, Coondoo I, Vasundhara M, Patra AK, Kholkin AL, Panwar N (2017) Magnetization reversal behavior and magnetocaloric effect in $\text{SmCr}_{0.85}\text{Mn}_{0.15}\text{O}_3$ chromites. *JOURNAL OF APPLIED PHYSICS*, 121, 43907. <http://dx.doi.org/10.1063/1.4974737>

[114] Kumar S, Coondoo I, Vasundhara M, Puli VS, Panwar N (2017) Observation of magnetization reversal and magnetocaloric effect in manganese modified EuCrO_3 orthochromites. *PHYSICA B-CONDENSED MATTER*, 519, 69 - 75.

<http://dx.doi.org/10.1016/j.physb.2017.05.050>

[115] Kumari P, Rai R, Sharma S, Valente MA (2017) Dielectric, electrical conduction and magnetic properties of multiferroic $\text{Bi}_{0.8}\text{Tb}_{0.1}\text{Ba}_{0.1}\text{Fe}_{0.9}\text{Ti}_{0.1}\text{O}_3$ perovskite compound. *JOURNAL OF ADVANCED DIELECTRICS*, 7, UNSP 1750034.

<http://dx.doi.org/10.1142/S2010135X17500345>

[116] Lahoud MG, Frem RCG, Marques LF, Arroyos G, Brandao P, Ferreira RAS, Carlos LD (2017) A novel near monochromatic red emissive europium(III) metal-organic framework based on 1,2,4,5-benzenetetracarboxylate: From synthesis to photoluminescence studies. *JOURNAL OF SOLID STATE CHEMISTRY*, 253, 176 - 183. <http://dx.doi.org/10.1016/j.jssc.2017.05.041>

[117] Laranjeira J, Marques L, Mezouar M, Melle-Franco M, Strutynski K (2017) Bonding Frustration in the 9.5 GPa fcc Polymeric C-60. *PHYSICA STATUS SOLIDI-RAPID RESEARCH LETTERS*, 11, 1700343. <http://dx.doi.org/10.1002/pssr.201700343>

[118] Latas SC, Ferreira MFS, Facao M (2017) Ultrashort high-amplitude dissipative solitons in the presence of higher-order effects. *JOURNAL OF THE OPTICAL SOCIETY OF AMERICA B-OPTICAL PHYSICS*, 34, 1033 - 1040. <http://dx.doi.org/10.1364/JOSAB.34.001033>

[119] Leitao C, Antunes P, Pinto JL, Bastos JM, Andre P (2017) Carotid distension waves acquired with a fiber sensor as an alternative to tonometry for central arterial systolic pressure assessment in young subjects. *MEASUREMENT*, 95, 45 - 49.

<http://dx.doi.org/10.1016/j.measurement.2016.09.035>

[120] Leleu A, Robutel P, Correia ACM, Lillo-Box J (2017) Detection of co-orbital planets by combining transit and radial-velocity measurements. *ASTRONOMY & ASTROPHYSICS*, 599, L7. <http://dx.doi.org/10.1051/0004-6361/201630073>

[121] Lipowski A, Lipowska D, Ferreira AL (2017) Phase transition and power-law coarsening in an Ising-doped voter model. *PHYSICAL REVIEW E*, 96, 32145.

<http://dx.doi.org/10.1103/PhysRevE.96.032145>

[122] Lopes MA, Lee KE, Goltsev AV (2017) Neuronal network model of interictal and recurrent ictal activity. *PHYSICAL REVIEW E*, 96, 62412. <http://dx.doi.org/10.1103/PhysRevE.96.062412>

[123] Lopes ML, Marques B, Dias JM, Soares AMVM, Lillebo AI (2017) Challenges for the WFD second management cycle after the implementation of a regional multi-municipality sanitation

system in a coastal lagoon (Ria de Aveiro, Portugal). *SCIENCE OF THE TOTAL ENVIRONMENT*, 586, 215 - 225. <http://dx.doi.org/10.1016/j.scitotenv.2017.01.205>

[124] Lupan O, Postica V, Grottrup J, Mishra AK, de Leeuw NH, Carreira JFC, Rodrigues J, Ben Sedrine N, Correia MR, Monteiro T, Cretu V, Tiginyanu I, Smazna D, Mishra YK, Adelung R (2017) Hybridization of Zinc Oxide Tetrapods for Selective Gas Sensing Applications. *ACS APPLIED MATERIALS & INTERFACES*, 9, 4084 - 4099. <http://dx.doi.org/10.1021/acsami.6b11337>

[125] Ma N, Reis MS (2017) Barocaloric effect on graphene. *SCIENTIFIC REPORTS*, 7, 13257. <http://dx.doi.org/10.1038/s41598-017-13515-9>

[126] Magalhaes S, Franco N, Watson IM, Martin RW, O'Donnell KP, Schenk HPD, Tang F, Sadler TC, Kappers MJ, Oliver RA, Monteiro T, Martin TL, Bagot PAJ, Moody MP, Alves E, Lorenz K (2017) Validity of Vegard's rule for $\text{Al}_{1-x}\text{In}_x\text{N}$ ($0.08 < x < 0.28$) thin films grown on GaN templates. *JOURNAL OF PHYSICS D-APPLIED PHYSICS*, 50, 205107. <http://dx.doi.org/10.1088/1361-6463/aa69dc>

[127] Mahajan A, Zhang HF, Wu JY, Ramana EV, Reece MJ, Yan HX (2017) Effect of Phase Transitions on Thermal Depoling in Lead-Free $0.94(\text{Bi}_{0.5}\text{Na}_{0.5}\text{TiO}_3)$ - $0.06(\text{BaTiO}_3)$ Based Piezoelectrics. *JOURNAL OF PHYSICAL CHEMISTRY C*, 121, 5709 - 5718. <http://dx.doi.org/10.1021/acs.jpcc.6b12501>

[128] Malaquias I (2017) International networks of production and distribution of scientific instruments in eighteenth-century Europe. *PORTUGUESE JOURNAL OF SOCIAL SCIENCE*, 16, 53 - 69. http://dx.doi.org/10.1386/pjss.16.1.53_1

[129] Marques AM, Dias RG (2017) Multihole edge states in Su-Schrieffer-Heeger chains with interactions. *PHYSICAL REVIEW B*, 95, 115443. <http://dx.doi.org/10.1103/PhysRevB.95.115443>

[130] Marques CAF, Antunes P, Mergo P, Webb DJ, Andre P (2017) Chirped Bragg Gratings in PMMA Step-Index Polymer Optical Fiber. *IEEE PHOTONICS TECHNOLOGY LETTERS*, 29, 500 - 503. <http://dx.doi.org/10.1109/LPT.2017.2662219>

[131] Marques CAF, Castanheira JM (2017) Barotropic decelerations of the southern stratospheric polar vortex. *QUARTERLY JOURNAL OF THE ROYAL METEOROLOGICAL SOCIETY*, 143, 744 - 755. <http://dx.doi.org/10.1002/qj.2961>

[132] Marques L, Skorokhod Y, Soares R (2017) New carbon structures obtained from C-70 at high pressures and high temperatures. *MATERIALS TODAY-PROCEEDINGS*, 4, 11564 - 11569.

[133] Martins AF, Carreira JFC, Rodrigues J, Ben Sedrine N, Castro IFC, Correia PMM, Veloso JFCA, Rino L, Monteiro T (2017) Spectroscopic analysis of $\text{LYSO}:\text{Ce}$ crystals. *SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY*, 172, 163 - 167. <http://dx.doi.org/10.1016/j.saa.2016.04.019>

[134] Martins NMR, Martins LMDRS, Amorim CO, Amaral VS, Pombeiro AJL (2017) First-Row-Transition Ion Metals(II)-EDTA Functionalized Magnetic Nanoparticles as Catalysts for Solvent-Free Microwave-Induced Oxidation of Alcohols. *CATALYSTS*, 7, 335. <http://dx.doi.org/10.3390/catal7110335>

- [135] Martins NMR, Martins LMDRS, Amorim CO, Amaral VS, Pombeiro AJL (2017) Solvent-Free Microwave-Induced Oxidation of Alcohols Catalyzed by Ferrite Magnetic Nanoparticles. *CATALYSTS*, 7, 222. <http://dx.doi.org/10.3390/catal7070222>
- [136] Melo M, Araujo EB, Neradovskaya EA, Turygin AP, Esin AA, Shur VY, Kholkin AL (2017) Physical properties and reentrant behavior in PLZT thin films. *FERROELECTRICS*, 509, 1 - 9. <http://dx.doi.org/10.1080/00150193.2017.1289792>
- [137] Mendes R, Saldias GS, deCastro M, Gomez-Gesteira M, Vaz N, Dias JM (2017) Seasonal and interannual variability of the Douro turbid river plume, northwestern Iberian Peninsula. *REMOTE SENSING OF ENVIRONMENT*, 194, 401 - 411. <http://dx.doi.org/10.1016/j.rse.2017.04.001>
- [138] Mendes RF, Ananias D, Carlos LD, Rocha J, Paz FAA (2017) Photoluminescent Lanthanide-Organic Framework Based on a Tetrakisphosphonic Acid Linker. *CRYSTAL GROWTH & DESIGN*, 17, 5191 - 5199. <http://dx.doi.org/10.1021/acs.cgd.7b00667>
- [139] Mesquita E, Arede A, Silva R, Rocha P, Gomes A, Pinto N, Antunes P, Varum H (2017) Structural health monitoring of the retrofitting process, characterization and reliability analysis of a masonry heritage construction. *JOURNAL OF CIVIL STRUCTURAL HEALTH MONITORING*, 7, 405 - 428. <http://dx.doi.org/10.1007/s13349-017-0232-9>
- [140] Mohseni F, Baghizadeh A, Lourenco AACs, Pereira MJ, Amaral VS, Vieira JM, Amaral JS (2017) Interdiffusion Processes in High-Coercivity RF-Sputtered Alnico Thin Films on Si Substrates. *JOM*, 69, 1427 - 1431. <http://dx.doi.org/10.1007/s11837-017-2382-y>
- [141] Moleri L, Amaro FD, Arazi L, Azevedo CDR, Oliveri E, Pitt M, Schaarschmidt J, Shaked-Renous D, dos Santos JMF, Veloso JFCD, Breskin A, Bressler S (2017) The Resistive-Plate WELL with Argon mixtures A robust gaseous radiation detector. *NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT*, 845, 262 - 265. <http://dx.doi.org/10.1016/j.nima.2016.06.009>
- [142] Morgado M, Talaia M, Teixeira L (2017) A new simplified model for evaluating thermal environment and thermal sensation: An approach to avoid occupational disorders. *INTERNATIONAL JOURNAL OF INDUSTRIAL ERGONOMICS*, 60, 3 - 13. <http://dx.doi.org/10.1016/j.ergon.2015.11.001>
- [143] Muhlleitner M, Sampaio MOP, Santos R, Wittbrodt J (2017) Phenomenological comparison of models with extended Higgs sectors. *JOURNAL OF HIGH ENERGY PHYSICS*, 132. [http://dx.doi.org/10.1007/JHEP08\(2017\)132](http://dx.doi.org/10.1007/JHEP08(2017)132)
- [144] Muhlleitner M, Sampaio MOP, Santos R, Wittbrodt J (2017) The N2HDM under theoretical and experimental scrutiny. *JOURNAL OF HIGH ENERGY PHYSICS*, 94. [http://dx.doi.org/10.1007/JHEP03\(2017\)094](http://dx.doi.org/10.1007/JHEP03(2017)094)
- [145] Mule A, Vermang B, Sylvester M, Brammertz G, Ranjbar S, Schnabel T, Gampa N, Meuris M, Poortmans J (2017) Effect of different alkali (Li, Na, K, Rb, Cs) metals on Cu₂ZnSnSe₄ solar cells. *THIN SOLID FILMS*, 633, 156 - 161. <http://dx.doi.org/10.1016/j.tsf.2016.11.027>

- [146] Mullins J, Leonard S, Markevich VP, Hawkins ID, Santos P, Coutinho J, Marinopoulos AG, Murphy JD, Halsall MP, Peaker AR (2017) Recombination via transition metals in solar silicon: The significance of hydrogen-metal reactions and lattice sites of metal atoms. *PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE*, 214, 1700304. <http://dx.doi.org/10.1002/pssa.201700304>
- [147] Nascimento M, Ferreira MS, Pinto JL (2017) Real time thermal monitoring of lithium batteries with fiber sensors and thermocouples: A comparative study. *MEASUREMENT*, 111, 260 - 263. <http://dx.doi.org/10.1016/j.measurement.2017.07.049>
- [148] Nascimento M, Ferreira MS, Pinto JL (2017) Impact of different environmental conditions on lithium-ion batteries performance through the thermal monitoring with fiber sensors. *THIRD INTERNATIONAL CONFERENCE ON APPLICATIONS OF OPTICS AND PHOTONICS*, 10453, UNSP 104532S. <http://dx.doi.org/10.1117/12.2276331>
- [149] Navarro-Lerida F, Radu E, Tchrakian DH (2017) Effect of Chern-Simons dynamics on the energy of electrically charged and spinning vortices. *PHYSICAL REVIEW D*, 95, 85016. <http://dx.doi.org/10.1103/PhysRevD.95.085016>
- [150] Neves AIS, Rodrigues DP, De Sanctis A, Alonso ET, Pereira MS, Amaral VS, Melo LV, Russo S, de Schrijver I, Alves H, Craciun MF (2017) Towards conductive textiles: coating polymeric fibres with graphene. *SCIENTIFIC REPORTS*, 7, 4250. <http://dx.doi.org/10.1038/s41598-017-04453-7>
- [151] Nioua Y, El Bouazzaoui S, Achour ME, Costa LC (2017) Modeling microwave dielectric properties of polymer composites using the interphase approach. *JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS*, 31, 1343 - 1352. <http://dx.doi.org/10.1080/09205071.2017.1348261>
- [152] Novais S, Ferreira MS, Pinto JL (2017) Lateral Load Sensing With an Optical Fiber Inline Microcavity. *IEEE PHOTONICS TECHNOLOGY LETTERS*, 29, 1502 - 1505. <http://dx.doi.org/10.1109/LPT.2017.2735021>
- [153] Novais S, Ferreira MS, Pinto JL (2017) Fabry-Perot cavity based on air bubble for high sensitivity lateral load and strain measurements. *THIRD INTERNATIONAL CONFERENCE ON APPLICATIONS OF OPTICS AND PHOTONICS*, 10453, UNSP 104532V. <http://dx.doi.org/10.1117/12.2276342>
- [154] Nunes LAO, Souza AS, Carlos LD, Malta OL (2017) Neodymium doped fluorindogallate glasses as highly -sensitive luminescent non-contact thermometers. *OPTICAL MATERIALS*, 63, 42 - 45. <http://dx.doi.org/10.1016/j.optmat.2016.08.038>
- [155] Nunes SC, Toquer G, Cardoso MA, Mayoral A, Ferreira RAS, Carlos LD, Ferreira P, Almeida P, Cattoen X, Man MWC, Bermudez VD (2017) Structuring of Alkyl-Triazole Bridged Silsesquioxanes. *CHEMISTRYSELECT*, 2, 432 - 442. <http://dx.doi.org/10.1002/slct.201601806>

- [156] Oliveira R, Marques THR, Bilro L, Nogueira R, Cordeiro CMB (2017) Multiparameter POF Sensing Based on Multimode Interference and Fiber Bragg Grating. *JOURNAL OF LIGHTWAVE TECHNOLOGY*, 35, 3 - 9. <http://dx.doi.org/10.1109/JLT.2016.2626793>
- [157] Paixao T, Araujo F, Ferreira L, Antunes P (2017) Resonant wavelength thermal stability of femtosecond FBGs. *2017 25TH INTERNATIONAL CONFERENCE ON OPTICAL FIBER SENSORS (OFS)*, 10323, UNSP 103236L. <http://dx.doi.org/10.1117/12.2263558>
- [158] Pavani K, Graca MPF, Kumar JS, Neves AJ (2017) Photoluminescence varied by selective excitation in BiGdWO₆:Eu³⁺ phosphor. *OPTICAL MATERIALS*, 74, 120 - 127. <http://dx.doi.org/10.1016/j.optmat.2017.03.038>
- [159] Pavani K, Kumar JS, Srikanth K, Soares MJ, Pereira E, Neves AJ, Graca MPF (2017) Highly efficient upconversion of Er³⁺ in Yb³⁺ codoped non-cytotoxic strontium lanthanum aluminate phosphor for low temperature sensors. *SCIENTIFIC REPORTS*, 7, 17646. <http://dx.doi.org/10.1038/s41598-017-17725-z>
- [160] Pelegov DV, Slautin BN, Gorshkov VS, Zelenovskiy PS, Kiselev EA, Kholkin AL, Shur VY (2017) Raman spectroscopy, "big data", and local heterogeneity of solid state synthesized lithium titanate. *JOURNAL OF POWER SOURCES*, 346, 143 - 150. <http://dx.doi.org/10.1016/j.jpowsour.2017.02.024>
- [161] Pelegov DV, Slautin BN, Zelenovskiy PS, Kuznetsov DK, Kiselev EA, Alikin DO, Kholkin AL, Shur VY (2017) Single particle structure characterization of solid-state synthesized Li₄Ti₅O₁₂. *JOURNAL OF RAMAN SPECTROSCOPY*, 48, 278 - 283. <http://dx.doi.org/10.1002/jrs.4999>
- [162] Pereira LM, Pospori A, Antunes P, Domingues MF, Marques S, Bang O, Webb DJ, Marques CAF (2017) Phase-Shifted Bragg Grating Inscription in PMMA Microstructured POF Using 248-nm UV Radiation. *JOURNAL OF LIGHTWAVE TECHNOLOGY*, 35, 5176 - 5184. <http://dx.doi.org/10.1109/JLT.2017.2771436>
- [163] Pereira SC, Marta-Almeida M, Carvalho AC, Rocha A (2017) Heat wave and cold spell changes in Iberia for a future climate scenario. *INTERNATIONAL JOURNAL OF CLIMATOLOGY*, 37, 5192 - 5205. <http://dx.doi.org/10.1002/joc.5158>
- [164] Piccirillo C, Moreira IS, Novais RM, Fernandes AJS, Pullar RC, Castro PML (2017) Biphasic apatite-carbon materials derived from pyrolysed fish bones for effective adsorption of persistent pollutants and heavy metals. *JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING*, 5, 4884 - 4894. <http://dx.doi.org/10.1016/j.jece.2017.09.010>
- [165] Pinto AN, Silva NA, Muga NJ, Almeida AJ, Pereira DF (2017) Quantum Communications: An Engineering Approach. *2017 19TH INTERNATIONAL CONFERENCE ON TRANSPARENT OPTICAL NETWORKS (ICTON)*.
- [166] Pochelon PN, Pires RFT, Dubert J, Nolasco R, Santos AMP, Queiroga H, dos Santos A (2017) Decapod larvae distribution and species composition off the southern Portuguese coast. *CONTINENTAL SHELF RESEARCH*, 151, 53 - 61. <http://dx.doi.org/10.1016/j.csr.2017.10.009>

- [167] Pombo P, Santos E, Magalhaes C (2017) HoloNetwork: communicating science through holography. *PRACTICAL HOLOGRAPHY XXXI: MATERIALS AND APPLICATIONS*, 10127, UNSP 101270C. <http://dx.doi.org/10.1117/12.2253379>
- [168] Postica V, Grottrup J, Adelung R, Lupan O, Mishra AK, de Leeuw NH, Ababii N, Carreira JFC, Rodrigues J, Ben Sedrine N, Correia MR, Monteiro T, Sontea V, Mishra YK (2017) Multifunctional Materials: A Case Study of the Effects of Metal Doping on ZnO Tetrapods with Bismuth and Tin Oxides. *ADVANCED FUNCTIONAL MATERIALS*, 27, 1604676. <http://dx.doi.org/10.1002/adfm.201604676>
- [169] Potzger K, Molholt TE, Fenta AS, Pereira LMC (2017) Surface science using radioactive ions at ISOLDE: from metal surfaces to two-dimensional materials. *JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS*, 44, 64001. <http://dx.doi.org/10.1088/1361-6471/aa659e>
- [170] Pukazhselvan D, Selvaraj NB, Bdkin I, Saravanan RSS, Jakka SK, Soares MJ, Fagg DP (2017) Unique dielectric features of a ceramic-semiconductor nanocomposite $\text{MgNb}_2\text{O}_6+0.25\text{Zn}(0.5)\text{Cd}(0.5)\text{S}$. *APPLIED SURFACE SCIENCE*, 424, 127 - 131. <http://dx.doi.org/10.1016/j.apsusc.2017.01.124>
- [171] Rafael S, Martins H, Marta-Almeida M, Sa E, Coelho S, Rocha A, Borrego C, Lopes M (2017) Quantification and mapping of urban fluxes under climate change: Application of WRF-SUEWS model to Greater Porto area (Portugal). *ENVIRONMENTAL RESEARCH*, 155, 321 - 334. <http://dx.doi.org/10.1016/j.envres.2017.02.033>
- [172] Ram SK, Desta D, Rizzoli R, Bellettato M, Lyckegaard F, Jensen PB, Jeppesen BR, Chevallier J, Summonte C, Larsen AN, Balling P (2017) Combining light-harvesting with detachability in high-efficiency thin-film silicon solar cells. *NANOSCALE*, 9, 7169 - 7178. <http://dx.doi.org/10.1039/c7nr00658f>
- [173] Ram SK, Desta D, Rizzoli R, Falcao BP, Eriksen EH, Bellettato M, Jeppesen BR, Jensen PB, Summonte C, Pereira RN, Larsen AN, Balling P (2017) Efficient light-trapping with quasi-periodic uniaxial nanowrinkles for thin-film silicon solar cells. *NANO ENERGY*, 35, 341 - 349. <http://dx.doi.org/10.1016/j.nanoen.2017.04.016>
- [174] Ramana EV, Prasad NV, Tobaldi DM, Zavasnik J, Singh MK, Hortiguera MJ, Seabra MP, Prasad G, Valente MA (2017) Effect of samarium and vanadium co-doping on structure, ferroelectric and photocatalytic properties of bismuth titanate. *RSC ADVANCES*, 7, 9680 - 9692. <http://dx.doi.org/10.1039/c7ra00021a>
- [175] Ranjbar S, Brammertz G, Vermang B, Hadipour A, Cong SR, Suganuma K, Schnabel T, Meuris M, da Cunha AF, Poortmans J (2017) Improvement of kesterite solar cell performance by solution synthesized MoO_3 interfacial layer. *PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE*, 214, 1600534. <http://dx.doi.org/10.1002/pssa.201600534>
- [176] Ranjbar S, Brammertz G, Vermang B, Hadipour A, Sylvester M, Mule A, Meuris M, da Cunha AF, Poortmans J (2017) Effect of Sn/Zn/Cu precursor stack thickness on two-step processed kesterite solar cells. *THIN SOLID FILMS*, 633, 127 - 130. <http://dx.doi.org/10.1016/j.tsf.2016.09.040>

- [177] Ranjbar S, Hadipour A, Vermang B, Batuk M, Hadermann J, Garud S, Sahayaraj S, Meuris M, Brammertz G, da Cunha AF, Poortmans J (2017) P-N Junction Passivation in Kesterite Solar Cells by Use of Solution-Processed TiO₂ Layer. *IEEE JOURNAL OF PHOTOVOLTAICS*, 7, 1130 - 1135. <http://dx.doi.org/10.1109/JPHOTOV.2017.2692208>
- [178] Reis FM, Antunes PFD, Maia NMM, Carvalho AR, Andre PSD (2017) Structural Health Monitoring Suitable for Airborne Components Using the Speckle Pattern in Plastic Optical Fibers. *IEEE SENSORS JOURNAL*, 17, 4791 - 4796. <http://dx.doi.org/10.1109/JSEN.2017.2715258>
- [179] Rey F, Domingues MRM, Domingues P, Rosa R, Orgaz MDM, Queiroga H, Calado R (2017) Effect of Maternal Size, Reproductive Season and Interannual Variability in Offspring Provisioning of *Carcinus maenas* in a Coastal Lagoon. *ESTUARIES AND COASTS*, 40, 1732 - 1743. <http://dx.doi.org/10.1007/s12237-017-0235-0>
- [180] Rey-Garcia F, Ben Sedrine N, Soares MR, Fernandes AJS, Lopes AB, Ferreira NM, Monteiro T, Costa FM (2017) Structural and optical characterization of Gd₂SiO₅ crystalline fibres obtained by laser floating zone. *OPTICAL MATERIALS EXPRESS*, 7, 868 - 879. <http://dx.doi.org/10.1364/OME.7.000868>
- [181] Richartz M, Herdeiro CAR, Berti E (2017) Synchronous frequencies of extremal Kerr black holes: Resonances, scattering, and stability. *PHYSICAL REVIEW D*, 96, 44034. <http://dx.doi.org/10.1103/PhysRevD.96.044034>
- [182] Rocha MVL, Michallet H, Silva PA (2017) Improving the parameterization of wave nonlinearities - The importance of wave steepness, spectral bandwidth and beach slope. *COASTAL ENGINEERING*, 121, 77 - 89. <http://dx.doi.org/10.1016/j.coastaleng.2016.11.012>
- [183] Rodrigues SMG, Facao M, Ferreira MFS (2017) Supercontinuum generation in chalcogenide layered spiral microstructured optical fiber. *JOURNAL OF NONLINEAR OPTICAL PHYSICS & MATERIALS*, 26, 1750049. <http://dx.doi.org/10.1142/S0218863517500497>
- [184] Rondao R, Frias AR, Correia SFH, Fu LS, Bermudez VD, Andre PS, Ferreira RAS, Carlos LD (2017) High-Performance Near-Infrared Luminescent Solar Concentrators. *ACS APPLIED MATERIALS & INTERFACES*, 9, 12540 - 12546. <http://dx.doi.org/10.1021/acsami.7b02700>
- [185] Rosa JG (2017) Superradiance in the sky. *PHYSICAL REVIEW D*, 95, 64017. <http://dx.doi.org/10.1103/PhysRevD.95.064017>
- [186] Ryan K, Neumayer SM, Maraka HVR, Buchete NV, Kholkin AL, Rice JH, Rodriguez BJ (2017) Thermal and aqueous stability improvement of graphene oxide enhanced diphenylalanine nanocomposites. *SCIENCE AND TECHNOLOGY OF ADVANCED MATERIALS*, 18, 172 - 179. <http://dx.doi.org/10.1080/14686996.2016.1277504>
- [187] Sahayaraj S, Brammertz G, Vermang B, Ranjbar S, Meuris M, Vleugels J, Poortmans J (2017) Effect of the duration of a wet KCN etching step and post deposition annealing on the efficiency of Cu₂ZnSnSe₄ solar cells. *THIN SOLID FILMS*, 633, 166 - 171. <http://dx.doi.org/10.1016/j.tsf.2016.09.055>

- [188] Sahayaraj S, Brammertz G, Vermang B, Schnabel T, Ahlswede E, Huang Z, Ranjbar S, Meuris M, Vleugels J, Poortmans J (2017) Optoelectronic properties of thin film Cu₂ZnGeSe₄ solar cells. *SOLAR ENERGY MATERIALS AND SOLAR CELLS*, 171, 136 - 141.
<http://dx.doi.org/10.1016/j.solmat.2017.06.050>
- [189] Salome PMP, Keller J, Torndahl T, Teixeira JP, Nicoara N, Andrade RR, Stroppa DG, Gonzalez JC, Edoff M, Leitao JP, Sadewasser S (2017) CdS and Zn_{1-x}Sn_xO_y buffer layers for CIGS solar cells. *SOLAR ENERGY MATERIALS AND SOLAR CELLS*, 159, 272 - 281.
<http://dx.doi.org/10.1016/j.solmat.2016.09.023>
- [190] Salome PMP, Ribeiro-Andrade R, Teixeira JP, Keller J, Torndahl T, Nicoara N, Edoff M, Gonzalez JC, Leitao JP, Sadewasser S (2017) Cd and Cu Interdiffusion in Cu(In, Ga) Se-2/CdS Hetero-Interfaces. *IEEE JOURNAL OF PHOTOVOLTAICS*, 7, 858 - 863.
<http://dx.doi.org/10.1109/JPHOTOV.2017.2666550>
- [191] Salome PMP, Teixeira JP, Keller J, Torndahl T, Sadewasser S, Leitao JP (2017) Influence of CdS and ZnSnO Buffer Layers on the Photoluminescence of Cu(In,Ga)Se-2 Thin Films. *IEEE JOURNAL OF PHOTOVOLTAICS*, 7, 670 - 675.
<http://dx.doi.org/10.1109/JPHOTOV.2016.2639347>
- [192] Samir Z, El Merabet Y, Graca MPF, Teixeira SS, Achour ME, Costa LC (2017) Dielectric behaviour of carbon nanotubes particles-filled polyester polymer composites. *JOURNAL OF COMPOSITE MATERIALS*, 51, 1831 - 1837. <http://dx.doi.org/10.1177/0021998316665682>
- [193] Sanchis-Gual N, Degollado JC, Font JA, Herdeiro C, Radu E (2017) Dynamical formation of a hairy black hole in a cavity from the decay of unstable solitons. *CLASSICAL AND QUANTUM GRAVITY*, 34, 165001. <http://dx.doi.org/10.1088/1361-6382/aa7d1f>
- [194] Sanchis-Gual N, Herdeiro C, Radu E, Degollado JC, Font JA (2017) Numerical evolutions of spherical Proca stars. *PHYSICAL REVIEW D*, 95, 104028.
<http://dx.doi.org/10.1103/PhysRevD.95.104028>
- [195] Santos NF, Cicuendez M, Holz T, Silva VS, Fernandes KJS, Vila M, Costa FM (2017) Diamond-Graphite Nanoplatelet Surfaces as Conductive Substrates for the Electrical Stimulation of Cell Functions. *ACS APPLIED MATERIALS & INTERFACES*, 9, 1331 - 1342.
<http://dx.doi.org/10.1021/acsami.6b14407>
- [196] Santos P, Coutinho J, Oberg S, Vaqueiro-Contreras M, Markevich VP, Halsall MP, Peaker AR (2017) Theory of a carbon-oxygen-hydrogen recombination center in n-type Si. *PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE*, 214, 1700309.
<http://dx.doi.org/10.1002/pssa.201700309>
- [197] Schell J, Lupascu DC, Carbonari AW, Mansano RD, Freitas RS, Goncalves JN, Dang TT, Vianden R (2017) Cd and In-doping in thin film SnO₂. *JOURNAL OF APPLIED PHYSICS*, 121, 195303. <http://dx.doi.org/10.1063/1.4983669>
- [198] Seshadri M, Anjos V, Bell MJV, Barbosa LC, Bosco GBF, Tessler LR, Kumar JS, Graca MPF, Soares MJ, Radha M, Ratnakaram YC (2017) Doped tellurite glasses: Extending near-infrared

emission for near-2.0-m amplifiers. *INTERNATIONAL JOURNAL OF APPLIED GLASS SCIENCE*, 8, 216 - 225. <http://dx.doi.org/10.1111/ijag.12213>

[199] Seyedhosseini E, Romanyuk K, Vasileva D, Vasilev S, Nuraeva A, Zelenovskiy P, Ivanov M, Morozovska AN, Shur VY, Lu HD, Gruverman A, Kholkin AL (2017) Self-Assembly of Organic Ferroelectrics by Evaporative Dewetting: A Case of beta-Glycine. *ACS APPLIED MATERIALS & INTERFACES*, 9, 20029 - 20037. <http://dx.doi.org/10.1021/acsami.7b02952>

[200] Sharma DK, Fateixa S, Hortiguera MJ, Vidyasagar R, Otero-Irurueta G, Nogueira HIS, Singh MK, Kholkin A (2017) Defect concentration in nitrogen-doped graphene grown on Cu substrate: A thickness effect. *PHYSICA B-CONDENSED MATTER*, 513, 62 - 68. <http://dx.doi.org/10.1016/j.physb.2017.03.004>

[201] Shen TL, Zhou ML, Bambi C, Herdeiro CAR, Radu E (2017) Iron K alpha line of Proca stars. *JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS*, 14. <http://dx.doi.org/10.1088/1475-7516/2017/08/014>

[202] Silva ALM, Cirino S, Carvalho ML, Manso M, Pessanha S, Azevedo CDR, Carramate LFND, Santos JP, Guerra M, Veloso JFCA (2017) Elemental mapping in a contemporary miniature by full-field X-ray fluorescence imaging with gaseous detector vs. scanning X-ray fluorescence imaging with polycapillary optics. *SPECTROCHIMICA ACTA PART B-ATOMIC SPECTROSCOPY*, 129, 1 - 7. <http://dx.doi.org/10.1016/j.sab.2016.12.006>

[203] Silva EL, Mishra YK, Fernandes AJS, Silva RF, Strobel J, Kienle L, Adelung R, Oliveira FJ, Zheludkevich ML (2017) Direct Synthesis of Electrowettable Carbon Nanowall-Diamond Hybrid Materials from Sacrificial Ceramic Templates Using HFCVD. *ADVANCED MATERIALS INTERFACES*, 4, 1700019. <http://dx.doi.org/10.1002/admi.201700019>

[204] Silva JV, Yoon S, De Bock PJ, Goltsev AV, Gevaert K, Mendes JFF, Fardilha M (2017) Construction and analysis of a human testis/sperm-enriched interaction network: Unraveling the PPP1CC2 interactome. *BIOCHIMICA ET BIOPHYSICA ACTA-GENERAL SUBJECTS*, 1861, 375 - 385. <http://dx.doi.org/10.1016/j.bbagen.2016.11.041>

[205] Silva PES, de Abreu FV, Godinho MH (2017) Shaping helical electrospun filaments: a review. *SOFT MATTER*, 13, 6678 - 6688. <http://dx.doi.org/10.1039/c7sm01280b>

[206] Silva PES, Godinho MH (2017) Helical Microfilaments with Alternating Imprinted Intrinsic Curvatures. *MACROMOLECULAR RAPID COMMUNICATIONS*, 38, 1600700. <http://dx.doi.org/10.1002/marc.201600700>

[207] Sousa AOP, Marques CAF, Nogueira R, Andre PS (2017) Simplified method for passive optical network in-service fibre-fault monitoring based on fibre Bragg gratings. *PHOTONIC NETWORK COMMUNICATIONS*, 34, 149 - 154. <http://dx.doi.org/10.1007/s11107-016-0684-6>

[208] Sousa MC, Alvarez I, deCastro M, Gomez-Gesteira M, Dias JM (2017) Seasonality of coastal upwelling trends under future warming scenarios along the southern limit of the canary upwelling system. *PROGRESS IN OCEANOGRAPHY*, 153, 16 - 23. <http://dx.doi.org/10.1016/j.pocean.2017.04.002>

- [209] Sousa MC, Decastro M, Alvarez I, Gomez-Gesteira M, Dias JM (2017) Why coastal upwelling is expected to increase along the western Iberian Peninsula over the next century?. *SCIENCE OF THE TOTAL ENVIRONMENT*, 592, 243 - 251. <http://dx.doi.org/10.1016/j.scitotenv.2017.03.046>
- [210] Sousa MG, da Cunha AF, Teixeira JP, Leitao JP, Otero-Irurueta G, Singh MK (2017) Optimization of post-deposition annealing in Cu₂ZnSnS₄ thin film solar cells and its impact on device performance. *SOLAR ENERGY MATERIALS AND SOLAR CELLS*, 170, 287 - 294. <http://dx.doi.org/10.1016/j.solmat.2017.05.065>
- [211] Souverijns N, Gossart A, Lhermitte S, Gorodetskaya IV, Kneifel S, Maahn M, Bliven FL, van Lipzig NPM (2017) Estimating radar reflectivity - Snowfall rate relationships and their uncertainties over Antarctica by combining disdrometer and radar observations. *ATMOSPHERIC RESEARCH*, 196, 211 - 223. <http://dx.doi.org/10.1016/j.atmosres.2017.06.001>
- [212] Stapleton A, Noor MR, Sweeney J, Casey V, Kholkin AL, Silien C, Gandhi AA, Soulimane T, Tofail SAM (2017) The direct piezoelectric effect in the globular protein lysozyme. *APPLIED PHYSICS LETTERS*, 111, 142902. <http://dx.doi.org/10.1063/1.4997446>
- [213] Tan XF, Zhou J, Zou HH, Fu LS, Tang QL (2017) A Series of Lanthanide-Germanate Oxo Clusters Decorated by 1,10-Phenanthroline Chromophores. *INORGANIC CHEMISTRY*, 56, 10361 - 10369. <http://dx.doi.org/10.1021/acs.inorgchem.7b01271>
- [214] Tan XF, Zhou J, Zou HH, Fu LS, Tang QL, Wang P (2017) A series of lanthanide glutarates: lanthanide contraction effect on crystal frameworks of lanthanide glutarates. *RSC ADVANCES*, 7, 17934 - 17940. <http://dx.doi.org/10.1039/c7ra01552f>
- [215] Tang CJ, Hou HH, Fernandes AJS, Jiang XF, Pinto JL, Ye H (2017) Investigation of bonded hydrogen defects in nanocrystalline diamond films grown with nitrogen/methane/hydrogen plasma at high power conditions. *JOURNAL OF CRYSTAL GROWTH*, 460, 16 - 22. <http://dx.doi.org/10.1016/j.jcrysgro.2016.12.050>
- [216] Tang QL, Zhou J, Liu X, Xiao H, Li WP, Fu LS, Dong TT (2017) A novel 2-D heterometallic polymer containing two types of 1-D cuprous polymeric chains and circle [V₄O₁₂](4-) clusters. *JOURNAL OF ALLOYS AND COMPOUNDS*, 713, 46 - 50. <http://dx.doi.org/10.1016/j.jallcom.2017.04.145>
- [217] Tang QL, Zhou J, Paz FAA, Fu LS, Xiao H, Zhou Q, Li J (2017) A novel 3-D photoluminescent cuprous chloride polymer based on bifunctional imidazolate/tetrazolate bridges. *DALTON TRANSACTIONS*, 46, 1372 - 1376. <http://dx.doi.org/10.1039/c6dt04673hrsc.li/dalton>
- [218] Timar G, Barnett MR, da Fonseca JQ (2017) Discontinuous yielding in wrought magnesium. *COMPUTATIONAL MATERIALS SCIENCE*, 132, 81 - 91. <http://dx.doi.org/10.1016/j.commatsci.2017.02.010>
- [219] Timar G, da Costa RA, Dorogovtsev SN, Mendes JFF (2017) Nonbacktracking expansion of finite graphs. *PHYSICAL REVIEW E*, 95, 42322. <http://dx.doi.org/10.1103/PhysRevE.95.042322>

- [220] Timar G, Goltsev AV, Dorogovtsev SN, Mendes JFF (2017) Mapping the Structure of Directed Networks: Beyond the Bow-Tie Diagram. *PHYSICAL REVIEW LETTERS*, 118, 78301. <http://dx.doi.org/10.1103/PhysRevLett.118.078301>
- [221] Tkach A, Amaral JS, Vitor SAB, Vilarinho PM (2017) Dielectric spectroscopy and magnetometry investigation of Gd-doped strontium titanate ceramics. *JOURNAL OF THE EUROPEAN CERAMIC SOCIETY*, 37, 2391 - 2397. <http://dx.doi.org/10.1016/j.jeurceramsoc.2017.02.011>
- [222] Tomczyk M, Bretos I, Jimenez R, Mahajan A, Ramana EV, Calzada ML, Vilarinho PM (2017) Direct fabrication of BiFeO₃ thin films on polyimide substrates for flexible electronics. *JOURNAL OF MATERIALS CHEMISTRY C*, 5, 12529 - 12537. <http://dx.doi.org/10.1039/c7tc04571a>
- [223] Torres VJB, Hussein RH, Pages O, Rayson MJ (2017) Clustering/anticlustering effects on the GeSi Raman spectra at moderate (Ge,Si) contents: Percolation scheme vs. ab initio calculations. *JOURNAL OF APPLIED PHYSICS*, 121, 85704. <http://dx.doi.org/10.1063/1.4976861>
- [224] Trindade AJ, Pereira L (2017) Bulk Heterojunction Organic Solar Cell Area-Dependent Parameter Fluctuation. *INTERNATIONAL JOURNAL OF PHOTOENERGY*, 1364152. <http://dx.doi.org/10.1155/2017/1364152>
- [225] Ushakov AD, Mishuk E, Alikin DO, Slautin BN, Esin AA, Baturin IS, Shur VY, Lubomirsky I, Kholkin AL (2017) Thermal excitation contribution into the electromechanical performance of self-supported Gd-doped ceria membranes. *SCANNING PROBE MICROSCOPY 2017 (SPM-2017)*, 256, UNSP 012008. <http://dx.doi.org/10.1088/1757-899X/256/1/012008>
- [226] Ushakov AD, Mishuk E, Makagon E, Alikin DO, Esin AA, Baturin IS, Tselev A, Shur VY, Lubomirsky I, Kholkin AL (2017) Electromechanical properties of electrostrictive CeO₂:Gd membranes: Effects of frequency and temperature. *APPLIED PHYSICS LETTERS*, 110, 142902. <http://dx.doi.org/10.1063/1.4979642>
- [227] Vaghefi PM, Baghizadeh A, Lourenco AACs, Amaral VS, Kholkin AL (2017) Giant Strain and Induced Ferroelectricity in Amorphous BaTiO₃ Films under Poling. *MATERIALS*, 10, 1107. <http://dx.doi.org/10.3390/ma10091107>
- [228] Vaghefi PM, Baghizadeh A, Willinger M, Lourenco AACs, Amaral VS (2017) Effect of lattice mismatch on the magnetic properties of nanometer-thick La_{0.9}Ba_{0.1}MnO₃ (LBM) films and LBM/BaTiO₃/LBM heterostructures. *APPLIED SURFACE SCIENCE*, 425, 988 - 995. <http://dx.doi.org/10.1016/j.apsusc.2017.06.252>
- [229] Vaghefi PM, Baghizadeh A, Willinger MG, Pereira MJ, Mota DA, Almeida BG, Moreira JA, Amaral VS (2017) Thickness dependence of microstructure in thin La_{0.7}Sr_{0.3}MnO₃ films grown on (100) SrTiO₃ substrate. *JOURNAL OF PHYSICS D-APPLIED PHYSICS*, 50, 395301. <http://dx.doi.org/10.1088/1361-6463/aa80bf>
- [230] Vaqueiro-Contreras M, Markevich VP, Halsall MP, Peaker AR, Santos P, Coutinho J, Oberg S, Murin LI, Falster R, Binns J, Monakhov EV, Svensson BG (2017) Powerful recombination

centers resulting from reactions of hydrogen with carbon-oxygen defects in n-type Czochralski-grown silicon. *PHYSICA STATUS SOLIDI-RAPID RESEARCH LETTERS*, 11, 1700133.

<http://dx.doi.org/10.1002/pssr.201700133>

[231] Vargas CIC, Vaz N, Dias JM (2017) An evaluation of climate change effects in estuarine salinity patterns: Application to Ria de Aveiro shallow water system. *ESTUARINE COASTAL AND SHELF SCIENCE*, 189, 33 - 45. <http://dx.doi.org/10.1016/j.ecss.2017.03.001>

[232] Viceto C, Marta-Almeida M, Rocha A (2017) Future climate change of stability indices for the Iberian Peninsula. *INTERNATIONAL JOURNAL OF CLIMATOLOGY*, 37, 4390 - 4408.

<http://dx.doi.org/10.1002/joc.5094>

[233] Vidal JV, Turutin AV, Kubasov IV, Malinkovich MD, Parkhomenko YN, Kobeleva SP, Kholkin AL, Sobolev NA (2017) Equivalent Magnetic Noise in Magnetoelectric Laminates Comprising Bidomain LiNbO₃ Crystals. *IEEE TRANSACTIONS ON ULTRASONICS FERROELECTRICS AND FREQUENCY CONTROL*, 64, 1102 - 1119. <http://dx.doi.org/10.1109/TUFFC.2017.2694342>

[234] Vilarinho D, Theodosiou A, Leitao C, Leal AG, Domingues MD, Kalli K, Andre P, Antunes P, Marques C (2017) POFBG-Embedded Cork Insole for Plantar Pressure Monitoring. *SENSORS*, 17, 2924. <http://dx.doi.org/10.3390/s17122924>

[235] Wang MJ, Herdeiro C, Jing JL (2017) Dirac perturbations on Schwarzschild-anti-de Sitter spacetimes: Generic boundary conditions and new quasinormal modes. *PHYSICAL REVIEW D*, 96, 104035. <http://dx.doi.org/10.1103/PhysRevD.96.104035>

[236] Wright E, Coutinho J, Oberg S, Torres VJB (2017) A first-principles model of copper-boron interactions in Si: implications for the light-induced degradation of solar Si. *JOURNAL OF PHYSICS-CONDENSED MATTER*, 29, 65701. <http://dx.doi.org/10.1088/1361-648X/aa4d78>

[237] Wu JL, Cao BS, Rino L, He YY, Feng ZQ, Dong B (2017) Temperature and rhodamine B sensing based on fluorescence intensity ratio of Er³⁺ upconversion emissions. *RSC ADVANCES*, 7, 48494 - 48500. <http://dx.doi.org/10.1039/c7ra09977k>

[238] Xiao H, Zhou J, Liu X, Fu LS, Wang P, Ran SP (2017) Two New 3-D Lead(II) Coordination Polymers of Glycolic Acid with Luminescent Properties. *JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS*, 27, S181 - S188.

<http://dx.doi.org/10.1007/s10904-017-0669-7>

[239] Yang TH, Silva AR, Fu LS, Shi FN (2017) Synthesis, Crystal Structure, and Catalytic Properties of Porous 3d-4f Heterometallic Coordination Polymers Constructed from Pyrazine-2,3-dicarboxylic Acid. *ZEITSCHRIFT FÜR ANORGANISCHE UND ALLGEMEINE CHEMIE*, 643, 1801 - 1808. <http://dx.doi.org/10.1002/zaac.201700344>

[240] Zelenovskiy PS, Davydov AO, Krylov AS, Kholkin AL (2017) Raman study of structural transformations in self-assembled diphenylalanine nanotubes at elevated temperatures. *JOURNAL OF RAMAN SPECTROSCOPY*, 48, 1401 - 1405. <http://dx.doi.org/10.1002/jrs.5084>

- [241] Zelenovskiy PS, Yuzhakov VV, Vasilev SG, Kholkin AL, Shur VY (2017) Local Young's moduli of as-grown and annealed diphenylalanine nanotubes. *SCANNING PROBE MICROSCOPY 2017 (SPM-2017)*, 256, *UNSP 012012*. <http://dx.doi.org/10.1088/1757-899X/256/1/012012>
- [242] Zhachuk R, Coutinho J (2017) Comment on "Different STM images of the superstructure on a clean Si(133)-6 x 2 surface" (*JETP Letters* 105, 477 (2017)). *JETP LETTERS*, 106, 346 - 347. <http://dx.doi.org/10.1134/S0021364017170039>
- [243] Zhachuk R, Coutinho J, Dolbak A, Cherepanov V, Voigtlander B (2017) Si(111) strained layers on Ge(111): Evidence for c(2 x 4) domains. *PHYSICAL REVIEW B*, 96, 85401. <http://dx.doi.org/10.1103/PhysRevB.96.085401>
- [244] Zhang H, Zhou ML, Bambi CM, Kleihaus B, Kunz J, Radu EG (2017) Testing Einstein-dilaton-Gauss-Bonnet gravity with the reflection spectrum of accreting black holes. *PHYSICAL REVIEW D*, 95, 104043. <http://dx.doi.org/10.1103/PhysRevD.95.104043>
- [245] Zhou ML, Bambi C, Herdeiro CAR, Radu E (2017) Iron K alpha line of Kerr black holes with Proca hair. *PHYSICAL REVIEW D*, 95, 104035. <http://dx.doi.org/10.1103/PhysRevD.95.104035>