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Publicações de pesquisadores Internos e de usuários externos do LNNano entre os anos 2010 a 2021 (última atualização em Março de 2021)

1 - Pesquisas internas, em colaborações e parcerias (em ordem decrescente). última atualização em março de 2021

2021	Pires, B. M. ; Nunes, W. G. ; Freitas, B. G. A. ; Oliveira, F. E. R.; Katic, V.; Rodella, C. B.; Silva, L. M. da ; Zanin, H. G. Characterization of porous cobalt hexacyanoferrate and activated carbon electrodes under dynamic polarization conditions in a sodium-ion pseudocapacitor Journal of Energy Chemistry v.54, p. 53-62, 2021 DOI: 10.1016/j.jechem.2020.05.045
2021	Schneid, A. da C. ; Ribeiro, I. R.; Galdino, F. E.; Bettini, J.; Cardoso, M. B. Degradable and colloidally stable zwitterionic-functionalized silica nanoparticles Nanomedicine Early Access, 2021 DOI: 10.2217/nnm-2020-0257
2021	Giordano, G. F.; Vieira, L. C. S.; Gomes, A. O. ; Carvalho, R. M. de; Kubota, L.T.; Fazzio, A.; Schleder, G. R. ; Gobbi, A. L.; Lima, R. S. Distilling small volumes of crude oil Fuel v.285, p.119072, 2021 DOI: 10.1016/j.fuel.2020.119072
2021	Giustino, F. ; Lee, J. H.; Trier, F. ; Bibes, M. ; Winter, S. M. ; Valentí, R.; Son, Y.-W; Taillefer, L. ; Heil, C. ; Figueroa, A. I.; Plaçais, B.; Wu, Q.; Yazyev, O. V.; Bakkers, E. P. A. M.; Nygård, J. ; Forn-Díaz, P. ; De Franceschi, S. ; McIver, J. W. The 2021 quantum materials roadmap JPhys Materials v.3, n. 4, p.042006, 2021 DOI: 10.1088/2515-7639/abb74e
2021	Pezo, A. ; Focassio, B. ; Schleder, G. R. ; Costa, M.; Lewenkopf, C. H.; Fazzio, A. Disorder effects of vacancies on the electronic transport properties of realistic topological insulator nanoribbons: The case of bismuthene Physical Review Materials v.5, n.1, p. 014204, 2021 DOI: 10.1103/PhysRevMaterials.5.014204
2021	Costa, L. S. da; Khan, L. U.; Franqui, L. S.; Delite, F. de S.; Muraca, D.; Martinez, D. S. T.; Knobel, M. Hybrid magneto-luminescent iron oxide nanocubes functionalized with europium complexes: synthesis, hemolytic properties and protein corona formation

	Journal of Materials Chemistry B v.9, n. 2, p.428-439, 2021 DOI: 10.1039/d0tb02454f
2021	García- Basabe, Y.; Gordo, V. O. ; Daminelli, L. M.; Mendoza, C. D.; Vicentin, F. C.; Matusalem, F.; Rocha, A. R.; de Matos, C. J. S.; Larrude, D. G. Interfacial electronic coupling and band alignment of P3HT and exfoliated black phosphorous van der Waals heterojunctions Applied Surface Science v. 541, p.148455, 2021 DOI: 10.1016/j.apsusc.2020.148455
2021	Picco, A. S.; Mondo, G. B.; Ferreira, L. F.; Souza, E. E.; Peroni, L. A.; Cardoso, M. B. Protein corona meets freeze-drying: overcoming the challenges of colloidal stability, toxicity, and opsonin adsorption Nanoscale v.13, n.2, p.753-762, 2021 DOI: 10.1039/d0nr06040b
2021	Trabecular architecture during the healing process of a tibial diaphysis defect Acta Biomaterialia v.120, p.181-193, 2021 DOI:
2020	Bernardes, A. A.; Caliman, L. B.; Silva, A. L.; Bettini, J.; Guimarães, K. L. ; Gouvêa, D. Li2O-doped MgAl2O4 nanopowders: Energetics of interface segregation Journal of the American Ceramic Society v. 13, n. 4, p. 2835-2844, 2020 DOI: 10.1111/jace.16942
2020	Manali, I. F. ; Rodrigues, L. C. V.; Braga, A. H.; Galante, D.; Teixeira, V. C. Structural and optical properties of europium- and titanium-doped Y2O3 nanoparticles Luminescence v. 35, n. 4, p. 456-465, 2020 DOI: 10.1002/bio.3747
2020	Pereira, A. K. dos S.; Reis, D. T. ; Barbosa, K. M. ; Scheidt, G. N. ; Costa, L. S. da; Santos, L. S. S. dos Antibacterial effects and ibuprofen release potential using chitosan microspheres loaded with silver nanoparticles Carbohydrate Research v. 488, p. 107891, 2020 DOI: 10.1016/j.carres.2019.107891
2020	Shrivastava, N.; Garcia, J. ; Rocha, U. ; Ospina Ramirez, C. A.; Muraca, D.; Menezes, A. S.; Jacinto, C.; Louie, A. Y. ; Zoppellaro, G. G.; Sharma, S. K. Binary activated iron oxide/SiO2/NaGdF4:RE (RE = Ce, and Eu; Yb, and Er) nanoparticles: synthesis, characterization and their potential for dual T-1-T-2

	weighted imaging New Journal of Chemistry v. 44, n. 3, p. 832-844, 2020 DOI: 10.1039/c9nj03929e
2020	Olekszyszen, D. N. ; Albuquerque, B. L.; Silva, D. O.; Tripodi, G. L. ; Oliveira, D. C.; Domingos, J. B. Core-shell PdCu bimetallic colloidal nanoparticles in Sonogashira cross-coupling reaction: mechanistic insights into the catalyst mode of action Nanoscale v. 12, n. 2, p. 1171-1179, 2020 DOI: 10.1039/c9nr09075d
2020	Reus, T. L. ; Marcon, B. H. ; Paschoal, A. C. C. ; Ribeiro, I. R.; Cardoso, M. B.; Dallagiovanna, B. ; Aguiar, A. M. de Dose-dependent cell necrosis induced by silica nanoparticles Toxicology in Vitro v. 63, p. UNSP 104723, 2020 DOI: 10.1016/j.tiv.2019.104723
2020	Vale, B. R. C.; Socie, E. ; Burgos-Carminal, A. ; Bettini, J.; Schiavon, M. A.; Moser, J.-E. Exciton, Biexciton, and Hot Exciton Dynamics in CsPbBr3 Colloidal Nanoplatelets Journal of Physical Chemistry Letters v. 11, n. 2, p. 387-394, 2020 DOI: 10.1021/acs.jpclett.9b03282
2020	Es, I.; Montebugnoli, J. ; Filippi, M. F. P. ; Malfatti Gasperini, A. A. M.; Radaic, A.; Jesus, M. B. de; de La Torre, L. G. High-throughput conventional and stealth cationic liposome synthesis using a chaotic advection-based microfluidic device combined with a centrifugal vacuum concentrator Chemical Engineering Journal v. 382, p. 122821, 2020 DOI: 10.1016/j.cej.2019.122821
2020	Crivoi, M. ; Hoyos Quintero , J. J.; Izumi, M. T. ; Aguiar, D. J. M. de ; Namur, R. S. ; Terasawa, A. L. ; Cintho, O. M. In situ analysis of cryogenic strain of AISI 316L stainless steel using synchrotron radiation Cryogenics v. 105, p. UNSP 103020, 2020 DOI: 10.1016/j.cryogenics.2019.103020
2020	Medeiros, A. M. Z. de; Coa, F.; Alves, O. L.; Martinez, D. S. T.; Barbieri, E. Metabolic effects in the freshwater fish Geophagus iporangensis in response to single and combined exposure to graphene oxide and trace elements Chemosphere v. 243, p. UNSP 125316, 2020 DOI: 10.1016/j.chemosphere.2019.125316

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2020	Oliveira, G. J. G.; Reimold, W. U.; Crosta, A. P.; Hauser, N. ; Mohr-Westheide, T. ; Tagle, R. ; Galante, D.; Kaufmann, F. Petrographic characterization of Archaean impact spherule layers from Fairview Gold Mine, northern Barberton Greenstone Belt, South Africa Journal of African Earth Sciences v. 162, p. 103718, 2020 DOI: 10.1016/j.jafrearsci.2019.103718
2020	Oliveira, J. F. A.; Silva, R. F. da ; Ribeiro, I. R.; Saito, A.; Hanchuk, T. D. M.; Dias, M. M.; Kobarg, J.; Cardoso, M. B. Selective Targeting of Lymphoma Cells by Monoclonal Antibody Grafted onto Zwitterionic-Functionalized Nanoparticles Particle & Particle Systems Characterization p. 1900446, 2020 DOI: 10.1002/ppsc.201900446
2020	Ferrari, V. C.; Almeida, R. M. de ; Souza, J. dos S. de; Souza, F. L. de; Alves, W. A. Tailoring a Zinc Oxide Nanorod Surface by Adding an Earth-Abundant Cocatalyst for Induced Sunlight Water Oxidation ChemPhysChem v. 21, n. 6, p. 476-483, 2020 DOI: 10.1002/cphc.201901171
2020	Nawaz, A. ; Silva, L. das M.; Andrade, D. M. de ; Camargo, D. H. S.; Bof Bufon, C. C. Edge-driven nanomembrane-based vertical organic transistors showing a multi-sensing capability Nature Communications v. 11, n. 1, p. 841, 2020 DOI: 10.1038/s41467-020-14661-x
2020	Souza Jr., J. B.; Schleder, G. R. ; Colombari, F. M. ; Farias, M. A. de; Bettini, J.; van Heel, M. G.; Portugal, R. V.; Fazzio, A.; Leite, E. R. Pair Distribution Function from Electron Diffraction in Cryogenic Electron Microscopy: Revealing Glassy Water Structure Journal of Physical Chemistry Letters v. 11, n. 4, p. 1564-1569, 2020 DOI: 10.1021/acs.jpclett.0c00171
2020	Galdino, F. E.; Picco, A. S.; Sforça, M. L.; Cardoso, M. B.; Loh, W. Effect of particle functionalization and solution properties on the adsorption of bovine serum albumin and lysozyme onto silica nanoparticles Colloids and Surfaces B-Biointerfaces v. 186, p. 110677, 2020 DOI: 10.1016/j.colsurfb.2019.110677

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2020	Ferraz, N. P. ; Nogueira, A. E.; Marcos, F. C. F.; Machado, V. A. ; Rocca, R. R. ; Assaf, E. M.; Asencios, Y. J. O. CeO2-Nb2O5 photocatalysts for degradation of organic pollutants in water Rare Metals v.39, n. 3, p. 230-240, 2020 DOI: 10.1007/s12598-019-01282-7
2020	Ferraz, C. P.; Costa, N. J.da S.; Teixeira-Neto, E.; Teixeira-Neto, A. A.; Liria, C. W.; Thuriot-Roukos, J. ; Machini, M. T.; Froidevaux, R. ; Dumeignil, F. ; Rossi, L. M.; Wojcieszak, R. 5-Hydroxymethylfurfural and Furfural Base-Free Oxidation over AuPd Embedded Bimetallic Nanoparticles Catalysts v. 10, n,1, p. 75, 2020 DOI: 10.3390/catal10010075
2020	Albano, L. G. S.; Vello, T. P.; Camargo, D. H. S.; Silva, R. M. L. ; Padilha, A. C. M.; Fazzio, A.; Bof Bufon, C. C. Ambipolar Resistive Switching in an Ultrathin Surface-Supported Metal-Organic Framework Vertical Heterojunction Nano Letters v.20, n. 2, p. 1080-1088, 2020 DOI: 10.1021/acs.nanolett.9b04355
2020	Pandoli, O. G. ; Gomes Neto, R. J. ; Oliveira, N. R.; Fingolo, A. C. ; Corrêa, C. C.; Ghavami, K. ; Strauss, M.; Santhiago, M. Ultra-highly conductive hollow channels guided by a bamboo bio-template for electric and electrochemical devices Journal of Materials Chemistry A v. 8, n. 7, p. 4030-4039, 2020 DOI: 10.1039/c9ta13069a
2020	Silva, G. S. da ; Oliveira, L. P. de ; Costa, G. F. ; Giordano, G. F.; Nicoliche, C. Y. N. ; Silva, A. A. da ; Khan, L. U.; Silva, G. H. da; Gobbi, A. L.; Silveira, J. V.; Souza Filho, A. G.; Schleder, G. R. ; Fazzio, A.; Martinez, D. S. T.; Lima, R. S. Ordinary microfluidic electrodes combined with bulk nanoprobe produce multidimensional electric double-layer capacitances towards metal ion recognition

	Sensors and Actuators B-Chemical v. 305, p. 127482, 2020 DOI: 10.1016/j.snb.2019.127482
2020	Fonseca, R. G. M. da ; Albers, R. F. ; Leite, E. R.; Oliveira, A. J. A. de Parallel magnetic anisotropy in few layers MoS2 films Journal of Magnetism and Magnetic Materials v. 497, p. 165985, 2020 DOI: 10.1016/j.jmmm.2019.165985
2020	Schwanke, A. J. ; Melguizo, P. V. ; Meneau, F.; Morgado Jr., E.; Pergher, S. B. Nucleation and crystallization of the MWW-type lamellar zeolitic precursor Catalysis Today v. 344, p. 102-107, 2020 DOI: 10.1016/j.cattod.2018.10.033
2020	Costa, D. ; Gomes, R. S.; Rodella, C. B.; Silva Jr., R. B. da ; Frety, R. ; Teixeira-Neto, E.; Brandão, S. T Study of nickel, lanthanum and niobium-based catalysts applied in the partial oxidation of methane Catalysis Today v. 344, p. 15-23, 2020 DOI: 10.1016/j.cattod.2018.10.022
2020	Ferreira, L. A. B.; Reis, S. B. dos; Silva, E. do N. da ; Cadore, S.; Bernardes, J. S.; Durán, N.; Jesus, M. B. de Thiol-antioxidants interfere with assessing silver nanoparticle cytotoxicity Nanomedicine-Nanotechnology Biology And Medicine v. 24, p. 102130, 2020 DOI: 10.1016/j.nano.2019.102130
2020	Schleder, G. R. ; Padilha, A. C. M.; Rocha, A. R.; Dalpian, G. M.; Fazzio, A. Ab Initio Simulations and Materials Chemistry in the Age of Big Data Journal of Chemical Information and Modeling v. 60, n. 2, p. 452-459, 2020 DOI: 10.1021/acs.jcim.9b00781
2020	Gordo, V. O. ; Rodrigues, L. do N. ; Knopper, F. ; Garcia Jr., A. J.; Iikawa, F.; Couto Jr., O. D. D.; Deneke, C. Band structure engineering in strain-free GaAs mesoscopic systems Nanotechnology v. 31, n. 25, p. 255202, 2020 DOI: 10.1088/1361-6528/ab7d74
2020	Silva, L. C. E.; Cassago, A.; Battirola, L. C.; Gonçalves, M. C.; Portugal, R. V. Specimen preparation optimization for size and morphology characterization of nanocellulose by TEM Cellulose v. 27, n. 9, p. 5435-5444, 2020 DOI: 10.1007/s10570-020-03116-7
2020	Tofanello, A.; Shen, S.; Souza, F. L. de; Vayssieres, L.

	Strategies to improve the photoelectrochemical performance of hematite nanorod-based photoanodes APL Materials v. 8, n, 4, p. 040905, 2020 DOI: 10.1063/5.0003146
2020	Milagre, M. X.; Donatus, U.; Mogili, N. V. V.; Silva, R. M. P. da ; Viveiros, B. V. G. de ; Pereira, V. F.; Antunes, R. A. ; Machado, C. S. C.; Costa, I.; Araujo, J. V. de S. Galvanic and asymmetry effects on the local electrochemical behavior of the 2098-T351 alloy welded by friction stir welding Journal of Materials Science & Technology v. 45, p. 162-175, 2020 DOI: 10.1016/j.jmst.2019.11.016
2020	Riciluca, K. C. T. ; Borges, A. C.; Mello, J. F. ; Oliveira, U. C. de ; Serdan, D. C.; Florez-Ariza, A. J.; Chaparro, E.; Nishiyama Jr., M. Y. ; Cassago, A.; Junqueira-de-Azevedo, I. L. M.; van Heel, M. G.; Silva Jr., P. I. ; Portugal, R. V. Myriapod haemocyanin: the first three-dimensional reconstruction of Scolopendra subspinipes and preliminary structural analysis of S. viridicornis Open Biology v. 10, n. 4, p. 190258, 2020 DOI: 10.1098/rsob.190258
2020	Slawinska, J. ; Cerasoli, F. T. ; Priya, G.; Costa, M.; Curtarolo, S.; Nardelli, M. B. Ultrathin SnTe films as a route towards all-in-one spintronics devices 2D Materials v. 7, n. 2, p. 025026, 2020 DOI: 10.1088/2053-1583/ab6f7a
2020	Pozzoli, G. L. ; Silva, L. das M.; Yassitepe, E.; Morais, V. B. de; Camargo, D. H. S.; Bof Bufon, C. C. Charge Transport and Gradient Doping in Nanostructured Polypyrrole Films for Applications in Photocurrent Generation ACS Applied Nano Materials v. 3, n. 3, p. 3060-3070, 2020 DOI: 10.1021/acsanm.0c00523
2020	Souza, F. L. de; Vayssieres, L. ; Mathur, S. ; Mao, S. S. Latest Advances in Solar Fuels Solar Energy Materials and Solar Cells v. 211, p. 110537, 2020 DOI: 10.1016/j.solmat.2020.110537
2020	Vello, T. P.; Strauss, M.; Costa, C. A. R.; Corrêa, C. C.; Bof Bufon, C. C. Deterministic control of surface mounted metal-organic framework growth orientation on metallic and insulating surfaces Physical Chemistry Chemical Physics v. 22, n. 10, p. 5839-5846, 2020 DOI: 10.1039/c9cp05717j

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2020	Basbus, J. F.; Arce, M. D,; Napolitano, F. R.; Troiani, H. E.; Alonso, J. A.; Saleta, M. E.; González, M. A. ; Cuello, G. J. ; Fernández-Díaz, M. T. ; Sainz, M. P. ; Bonanos, N. ; Jimenez, C. E. ; Giebeler, L. ; Figueroa, S. J. A.; Caneiro, A.; Serquis, A Revisiting the Crystal Structure of BaCe0.4Zr0.4Y0.2O3-delta Proton Conducting Perovskite and Its Correlation with Transport Properties ACS Applied Energy Materials v. 3, n. 2, p. 2881-2892, 2020 DOI: 10.1021/acsaem.9b02498
2020	Verbeno, C. H. ; Krohling, A. C. ; Paschoa, A. ; Bueno, T. E. P.; Soares, M. M.; Mori, T. J. A.; Larica, C.; Nascimento, V. P.; Van Lierop, J. ; Caetano, E. P. Cobalt nanowire arrays grown on vicinal sapphire templates by DC magnetron sputtering Journal of Magnetism and Magnetic Materials v. 507, p. 166854, 2020 DOI: 10.1016/j.jmmm.2020.166854
2020	Jiang, W. ; Qu, Z.-B; Kumar, P. ; Vecchio, D. ; Wang, Y. ; Ma, Y. ; Bahng, J. H. ; Bernardino, K. ; Gomes, W. R. ; Colombari, F. M. ; Lozada-Blanco, A. ; Veksler, M. ; Marino, E. ; Simon, A. ; Murray, C. ; Muniz, S. R. ; Moura, A. F. de; Kotov, N. A. Emergence of complexity inhierarchically organized chiral particles Science v.368, n. 6491, p. 642-648, 2020 DOI: 10.1126/science.aaz7949
2020	Donida, B.; Raabe, M.; Tauffner, B. ; Farias, M. A. de; Machado, A. Z. ; Timm, F; Kessler, R. G. ; Hammerschmidt, T. G. ; Reinhardt, L. S. ; Brito, V. B. ; Portugal, R. V.; Bernardi, A.; Frozza, R. L.; Moura, D. J. ; Giugliani, R. ; Poletto, F. S.; Vargas Nanoparticles containing beta-cyclodextrin potentially useful for the treatment of Niemann-Pick C Journal of Inherited Metabolic Disease v. 43, n. 3, p. 586-601, 2020 DOI: 10.1002/jimd.12210
2020	Boni, F. R. ; Ferreira, F. V.; Pinheiro, I. F.; Rocco, S. A.; Sforça, M. L.; Lona, L. M. F. Synthesis and analysis of phase segregation of polystyrene-block-poly(methyl methacrylate) copolymer obtained by Steglich esterification from semitelechelic blocks of polystyrene and poly(methyl methacrylate) Journal of Applied Polymer Science p. e49416, 2020 DOI: 10.1002/app.49416
2020	Higa, L. H.; Schilrreff, P. ; Briski, A. M. ; Jerez, H. E.; Farias, M. A. de; Portugal, R. V.; Romero, E. L.; Morilla, M. J.

	Bacterioruberin from Haloarchaea plus dexamethasone in ultra-small macrophage-targeted nanoparticles as potential intestinal repairing agent Colloids and Surfaces B-Biointerfaces v. 191, p. 110961, 2020 DOI: 10.1016/j.colsurfb.2020.110961
2020	Fingolo, A. C. ; Bettini, J.; Cavalcante, M. da S.; Pereira, M. P.; Bof Bufon, C. C.; Santhiago, M.; Strauss, M. Boosting Electrical Conductivity of Sugarcane Cellulose and Lignin Biocarbons through Annealing under Isopropanol Vapor ACS Sustainable Chemistry & Engineering v.8, n.18, p. 7002-7010, 2020 DOI: 10.1021/acssuschemeng.0c00320
2020	Silva, C. E. de P. da; Tam, K. C.; Bernardes, J. S.; Loh, W. Double stabilization mechanism of O/W Pickering emulsions using cationic nanofibrillated cellulose Journal of Colloid and Interface Science v. 574, p.207-216, 2020 DOI: 10.1016/j.jcis.2020.04.001
2020	Raebiger, H.; Padilha, A. C. M.; Rocha, A. R.; Dalpian, G. M. Electronic mechanism for resistive switching in metal/insulator/metal nanodevices Journal of Physics D-Applied Physics v. 53, n. 29, p. 295302, 2020 DOI: 10.1088/1361-6463/ab7a58
2020	Schleder, G. R. ; Acosta, C. M.; Fazzio, A. Exploring Two-Dimensional Materials Thermodynamic Stability via Machine Learning ACS Applied Materials & Interfaces v.12, n.18, p. 20149-20157, 2020 DOI: 10.1021/acsami.9b14530
2020	Rodrigues, R. V.; Marciniak, L. ; Khan, L. U.; Muri, E. J. B. ; Cruz, P. C. M. da; Matos, J. R.; Strek, W. ; Marins, A. A. L. Impact of Tb3+ ion concentration on the morphology, structure and photoluminescence of Gd2O2SO4:Tb3+ phosphor obtained using thermal decomposition of sulfate hydrate Luminescence v.35, n.8, p. 1254-1263, 2020 DOI: 10.1002/bio.3886
2020	Lopes, C. S. ; Silva, L. das M.; Oliveira, R. F. de; Camargo, D. H. S.; Bof Bufon, C. C. Rectification ratio and direction controlled by temperature in copper phthalocyanine ensemble molecular diodes Nanoscale v.12, n. 18, p.10001-10009, 2020 DOI: 10.1039/c9nr10601d

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2020	Heath, J. J. ; Costa, M.; Nardelli, M. B.; Kuroda, M. A. Role of quantum confinement and interlayer coupling in CrI3-graphene magnetic tunnel junctions Physical Review B v.101, n.19, p.195439, 2020 DOI: 10.1103/PhysRevB.101.195439
2020	Assis, M. de; Ribeiro, R. A. P. ; Carvalho, M. H. ; Teixeira, M. M. ; Gobato, Y. G. ; Prando, G. A. ; Mendonça, C. R. ; De Boni, L.; Oliveira, A. J. A. de; Bettini, J.; Andrés, J.; Longo, E. Unconventional Magnetization Generated from Electron Beam and Femtosecond Irradiation on alpha-Ag2WO4: A Quantum Chemical Investigation ACS Omega v. 5, n.17, p. 10052-10067, 2020 DOI: 10.1021/acsomega.0c00542
2020	Moreira, N. S. ; Chagas, C. L. S.; Oliveira, K. A.; Duarte Jr., G. F.; Souza, F. R. de; Santhiago, M.; Garcia, C. D.; Kubota, L.T.; Coltro, W. K. T. Fabrication of microwell plates and microfluidic devices in polyester films using a cutting printer Analytica Chimica Acta v. 110, p. 1-10, 2020 DOI: 10.1016/j.aca.2020.04.047
2020	Teixeira, V. C.; Manali, I. F. ; Galante, D.; Barbosa, D. A. B.; Paschoal, C. W. A.; Silva, R. S. da; Rezende, M. V. dos S. Luminescent properties of Li(Ga(1-x)Crx)(5)O-8 (LGCO) phosphors Ceramics International v. 46, n. 10, p. 15779-15785, 2020 DOI: 10.1016/j.ceramint.2020.03.122
2020	Borges, B. M. M. N. ; Strauss, M.; Alves, P. C. ; Sohi, S. P. ; Franco, H. C. J. Re-use of sugarcane residue as a novel biochar fertiliser - Increased phosphorus use efficiency and plant yield Journal of Cleaner Production v. 262, p. 121406, 2020 DOI: 10.1016/j.jclepro.2020.121406
2020	Yuvaraja, S. ; Nawaz, A. ; Liu, Q; Dubal, D. ; Surya, S. ; Salama, K.; Sonar, P. Organic field-effect transistor-based flexible sensors Chemical Society Reviews v. 49, n. 11, p.3423-3460, 2020 DOI: 10.1039/c9cs00811j
2020	Tello, A. C. M. ; Assis, M. de; Menasce, R. ; Gouveia, A. F.; Teodoro, V. ; Jacomaci, N. ; Zaghete, M. A.; Andrés, J.; Marques, G. E.; Teodoro, M. D.; Silva, A. B. F. da; Bettini, J.; Longo, E.

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	Microwave-Driven Hexagonal-to-Monoclinic Transition in BiPO4: An In-Depth Experimental Investigation and First-Principles Study Inorganic Chemistry v. 59, n. 11, p. 7453-7468, 2020 DOI: 10.1021/acs.inorgchem.0c00181
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2012	Tallarico, D. A.; Gobbi, A. L.; Paulin-Filho, P. I.; Galtayries, A.; Nascente, P. A. P. Surface characterization of Zr/Ti/Nb tri-layered films deposited by magnetron sputtering on Si(111) and stainless steel substrates Journal of Vacuum Science & Technology A v. 30, n.5, p. 051505-051508, 2012 DOI: 10.1116/1.4737616
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2012	Zagonel, L. F.; Rigutti, L.; Tchernycheva, M.; Jacopin, G.; Songmuang, R.; Kociak, M. Visualizing highly localized luminescence in GaN/AlN heterostructures in nanowires Nanotechnology v. 23, n. 45 , p. 455205, 2012 DOI: 10.1088/0957-4484/23/45/455205
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2012	Unfried, J.; Wu, L.; Ferreira, F. F.; Garzón, C. M.; Londono, A. J. R. Stacking fault energy measurements in solid solution strengthened Ni-Cr-Fe alloys using synchrotron radiation Materials Science and Engineering A-Structural Materials Properties Microstructure and Processing v. 558, p. 70- 75, 2012 DOI: 10.1016/j.msea.2012.07.072
2012	Matos, C. F.; Galembeck, F.; Zarbin, A. J. G. Multifunctional materials based on iron/iron oxide-filled carbon nanotubes/natural rubber composites Carbon v.50, n. 12, p. 4685-4695, 2012 DOI: 10.1016/j.carbon.2012.05.060
2012	Ospina Ramirez, C. A.; Terra, J.; Londono, A. J. R. ; Ellis, D. E.; Rossi, A. M. Simulations of hydroxyapatite nanocrystals for HRTEM images calculations Key Engineering Materials v. 493-494, p. 763-767, 2012 DOI: 10.4028/www.scientific.net/kem.493-494.763
2012	Burgo, T. A. L.; Ducati, T. R. D.; Francisco, K. R.; Clinckspoor, K. J.; Galembeck, F.; Galembeck, S. E. Triboelectricity: macroscopic charge patterns formed by self-arraying ions on polymer surfaces Langmuir v. 28, n. 19 , p. 7407-7416, 2012 DOI: 10.1021/la301228j
2011	Austreto, P. A. S.; Lagos Paredes, M. J.; Sato, F.; Bettini, J.; Rocha, A. R.; Rodrigues, V.; Ugarte, D. M.; Galvao, D. S. Intrinsic Stability of the Smallest Possible Silver Nanotube Physical Review Letters v. 106, n. 6, p. 065501-1-4, 2011 DOI: 10.1103/physrevlett.106.065501
2011	Lagos Paredes, M. J.; Galvao, D. S.; Sato, F.; Ugarte, D. M. Mechanical deformation of nanoscale metal rods: when size and shape matter

	Physical Review Letters v. 106, n. 5, p. 055501-1-4, 2011 DOI: 10.1103/physrevlett.106.055501
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2011	Lagos, M. J.; Austreto, P. A. S.; Legoas, S. B.; Sato, F.; Rodrigues, V.; Galvao, D. S.; Ugarte, D. M. Temperature effects on the occurrence of long interatomic distances in atomic chains formed from stretched gold nanowires Nanotechnology v. 22, n.9, p. 095705-095711, 2011 DOI: 10.1088/0957-4484/22/9/095705
2011	Stroppa, D. G.; Montoro, L. A.; Beltrán, A.; Conti, T. G.; da Silva, R. O.; Andrés, J.; Leite, E. R.; Londono, A. J. R. Anomalous oriented attachment growth behavior on SnO2 nanocrystals Chemical Communications v. 47, v. 11, p. 3117-3119, 2011 DOI: 10.1039/c0cc04570e
2011	Torres López, E. A.; Londono, A. J. R. In situ scanning electron microscopy Science and Technology of Welding and Joining v. 16, n. 1, p.68-78, 2011 DOI: 10.1179/136217110X12785889550028
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2011	Torres López, E. A.; Londono, A. J. R. Dissimilar Joint of Aluminum-Steel Thin Sheet by Friction Stir Welding Process Soldagem & Inspecao v. 16, n. 3, p.265-273, 2011 DOI: 10.1590/S0104-92242011000300008
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2011	Deneke, C.; Wild, E.; Boldyreva, K.; Baunack, S.; Cendula, P.; Mönch, J. I.; Simon, M.; Malachias, A.; Dörr, K.; Schmidt, O. G. Rolled-up tubes and cantilevers by releasing SrRuO3-Pr0.7Ca0.3MnO3 nanomembranes Nanoscale Research Letters v. 6, n. 1, p. 621-1-8, 2011 DOI: 10.1186/1556-276x-6-621
2011	Bof Bufon, C. C.; Espinoza, J. D. A.; Thurmer, D. J.; Bauer, M.; Deneke, C.; Zschieschang, U.; Klauk, H.; Schmidt, O. G. Hybrid organic/inorganic molecular heterojunctions based on strained nanomembranes Nano Letters v. 11, n. 9, p. 3727-3733, 2011 DOI: 10.1021/nl201773d
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2010	Afonso, C. R. M.; Ferrandini, P. L.; Londono, A. J. R. ; Caram Jr., R. High resolution transmission electron microscopy study of the hardening mechanism through phase separation in a Betha-Ti-35Nb-7Zr-5Ta alloy for implant applications Acta Biomaterialia v. 6, p. 1625-1629, 2010 DOI: 10.1016/j.actbio.2009.11.010
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2010	Suela, J.; Ribeiro, I. R. B.; Ferreira, S. O.; Malachias, A.; Fontes, G. N.; Montoro, L. A.; Londono, A. J. R. Evolution of crystalline domain size and epitaxial orientation of CdTe/Si(111) quantum dots Journal of Applied Physics v. 107, n. 6, p. 064305, 2010 DOI: 10.1063/1.3357292
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2010	Roa, D. B.; Barcelos, I. D.; Siervo, A. de; Pirota, K. R.; Lacerda, R. G.; Magalhães-Paniago, R. Observation of ferromagnetism in PdCo alloy nanoparticles encapsulated in carbon nanotubes

	Applied Physics Letters v. 96, p. 253114, 2010 DOI: 10.1063/1.3454781
2010	Montoro, L. A.; Medeiros-Ribeiro, G.; Londono, A. J. R. Novel approach for high-resolution elastic behavior assessment of alloyed strained nanostructures Journal of Physical Chemistry C 114, n. 29, p. 12409-12415, 2010 DOI: 10.1021/jp100187u
2010	Cardoso, M. B.; Westfahl Jr., H. On the lamellar width distributions of starch Carbohydrate Polymers v. 81, n. 3, p. 21-28, 2010 DOI: 10.1016/j.carbpol.2010.01.049
2010	Moura, A. P.; Cavalcante, L. S.; Sczancoski, J. C.; Stroppa, D. G.; Paris, E. C.; Londono, A. J. R. ; Varela, J. A.; Longo, E. Structure and growth mechanism of CuO plates obtained by microwave-hydrothermal without surfactants Advanced Powder Technology v. 21, p. 197-202, 2010 DOI: 10.1016/j.apt.2009.11.007
2010	Garcia, F.; Westfahl Jr., H.; Schoenmaker, J.; Carvalho, E. J.; Santos, A. D.; Pojar, M.; Seabra, A. C.; Belkhou, R.; Bendounan, A.; Novais, E. R. P.; Guimarães, A. P. Tailoring magnetic vortices in nanostructures Applied Physics Letters v. 97, p. 022501, 2010 DOI: 10.1063/1.3462305
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2010	Longo, E.; Dalmaschio, C. J.; Mastelaro, V. R.; Nascente, P. A. P.; Bettini, J.; Zotin, J. L.; Leite, E. R. Oxide surface modification: synthesis and characterization of zirconia-coated alumina Journal of Colloid and Interface Science v. 343, n. 1, p. 256-262, 2010 DOI: 10.1016/j.jcis.2009.11.027
2010	Souza, S. A.; Manicardi, R. B.; Ferrandini, P. L.; Afonso, C. R. M.; Londono, A. J. R. ; Caram Jr., R.

	Effect of the addition of Ta on microstructure and properties of Ti-Nb alloys Journal of Alloys and Compounds 504, 330-340 (2010) DOI: 10.1016/j.jallcom.2010.05.134
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2010	Unfried, J.; Paes, M. T. P.; Hermenegildo, T. F.; Bastian, F. L.; Londono, A. J. R. Study of microstructural evolution of friction taper plug welded joints of C-Mn steels Science and Technology of Welding and Joining v. 15, n. 6, p. 506-513, 2010 DOI: 10.1179/136217110x12720264008556
2010	Santos, T. F. A.; Hermenegildo, T. F.; Afonso, C. R. M.; Marinho, R. R.; Paes, M. T. P.; Londono, A. J. R. Fracture toughness of ISO 3183 X80M (API 5L X80) steel friction stir welds Engineering Fracture Mechanics v. 77, n. 15, p. 2937-2945, 2010 DOI: 10.1016/j.engfracmech.2010.07.022
2010	Carvalhal, R. F.; Machado, D. S.; Mendes, R. K.; Almeida, A. L. de J.; Moreira, N. H.; Piazzetta, M. H. O.; Gobbi, A. L.; Kubota, L.T. Development of a disposable amperometric biosensor for salicylate based on a plastic electrochemical microcell Biosensors & Bioelectronics v. 25, n. 10, p. 2200-2204, 2010 DOI: 10.1016/j.bios.2010.02.026
2010	Lagos Paredes, M. J.; Sato, F.; Austreto, P. A. S.; Galvao, D. S.; Rodrigues, V .; Ugarte, D. M. Temperature effects on the atomic arrangement and conductance of atomic-size gold nanowires generated by mechanical stretching Nanotechnology v. 21, p. 485702-1-7, 2010 DOI: 10.1088/0957-4484/21/48/485702
2010	Stroppa, D. G.; Hermenegildo, T. F.; Unfried, J.; Oliveira, N.; Londono, A. J. R. Calculating Joint Clearance at Brazing Temperature Welding Journal v. 89, n. 9, p. 32-35, 2010 DOI: DOI Indisponível
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	Talanta 83: 241-248 (2010) DOI: 10.1016/j.talanta.2010.09.014
2010	Arguello, J.; Magosso, H. A.; Landers, R.; Pimentel, V. L.; Gushikem, Y. Synthesis, characterization and electroanalytical application of a new SiO2/SnO2 carbon ceramic electrode Electrochimica Acta 56, 340-345 (2010) DOI: 10.1016/j.electacta.2010.08.073
2010	Mazo, L. H.; Almeida, A. L. de J.; Segato, T. P.; Coltro, W. K. T.; Piazzetta, M. H. O.; Gobbi, A. L.; Carrilho, E. A rapid and reliable bonding process for microchip electrophoresis fabricated in glass substrates Electrophoresis v. 31, n. 15, p. 2526-2533, 2010 DOI: 10.1002/elps.201000099
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2010	Arantes, T. M.; Mambrini, G. P.; Stroppa, D. G.; Leite, E. R.; Longo, E.; Londono, A. J. R. ; Camargo, E. R. Stable colloidal suspensions of nanostructured zirconium oxide synthesized by hydrothermal process Journal of Nanoparticle Research 12, 3105-3110 (2010) DOI: 10.1007/s11051-010-9906-5
2010	Santos, D.A.A.; Junior, E.A.S.; Macêdo, M.A. Radioluminescence in ZnO Radiation Physics and Chemistry v. 79, n. 5, p. 612-614, 2010 DOI: 10.1016/j.radphyschem.2009.12.008
2010	Sowards, J. W.; Londono, A. J. R. ; Dickinson, D. W.; Lippold, J. C. Characterization of welding fume from SMAW electrodes - Part II Welding Journal 89, 82s-90s (2010) DOI: DOI Indisponível

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2 - Pesquisas de usuários externos do LNNano entre 2010 e 2021 (em ordem decrescente). Última atualização em março de 2021

2021	Dias, M.; Verissimo, N. C.; Regone, N. N.; Freitas, E. S.; Cheung, N.; Garcia, A. Electrochemical corrosion behaviour of Sn–Sb solder alloys: the roles of alloy Sb content and type of intermetallic compound Corrosion Engineering Science and Technology v.56, n. 1, p. 11-21, 2021 DOI: 10.1080/1478422X.2020.1791446
2021	Queiroz, P. J. B.; Assis, B. M.; Silva, D. C. ; Noronha Filho, A. D. F. ; Pancotti, A.; Rabelo, R. E.; Borges, N. C. ; Vulcani, V. A. S.; Silva, L. A. F. da Mineral composition and microstructure of the abaxial hoof wall in dairy heifers after biotin supplementation Anatomia Histologia Embryologia v.50, n.1, p. 93-101, 2021 DOI: 10.1111/ahe.12605
2021	Mishchenko, A.; Scotti, A. Welding thermal stress diagrams as a means of assessing material proneness to residual stresses Journal of Materials Science v.56, p. 1694–1712, 2021 DOI: 10.1007/s10853-020-05294-y
2021	Pacheco, V. N. ; Nolde, J.; Quevedo, A. S. de ; Visioli, F. ; Ponzoni, D. Improvement in the chemical structure and biological activity of surface titanium after exposure to UVC light Odontology v.109, p.271–278, 2021 DOI: 10.1007/s10266-020-00540-w
2021	Silva, L. F. da; Catto, A. C.; Bernardini, S.; Fiorido, T.; Palma, J. V. N. de ; Avansi Jr., W.; Aguir, K.; Bendahan, M. BTEX gas sensor based on hematite microrhombuses Sensors and Actuators B-Chemical v. 326, p. 128817, 2021 DOI: 10.1016/j.snb.2020.128817
2021	Silva, C. ; Figueiredo, R. B. ; Gonzalez, B. M. ; Montoro, L. A.; Isaac, A. C. Designing ultrahard aluminum nanocomposites by severe mechanochemical processing Materials Science and Engineering A-Structural Materials Properties

	Microstructure and Processing v. 801, p. 140422, 2021 DOI: 10.1016/j.msea.2020.140422
2021	Lopes, I. de S. ; Michelon, M.; Duarte, L. G. R. ; Prediger, P. ; Cunha, R. L. da ; Picone, C. S. F. Effect of chitosan structure modification and complexation to whey protein isolate on oil/water interface stabilization Chemical Engineering Science v.230, p. 116124, 2021 DOI: 10.1016/j.ces.2020.116124
2021	Gaal, G.; Jimenez, M. M. J.; Alvarez, F.; Rodrigues, V.; Riul Jr., A. Influence of water on electrical and mechanical properties of self-assembled and self-healing PEM films Progress in Organic Coatings v.150, p. 105980, 2021 DOI: 10.1016/j.porgcoat.2020.105980
2021	Silva, K. C. G. ; Feltre, G. ; Hubinger, M. D.; Sato, A. C. K. Protection and targeted delivery of ß-carotene by starch-alginate-gelatin emulsion-filled hydrogels Journal of Food Engineering v.290, p. 110205, 2021 DOI: 10.1016/j.jfoodeng.2020.110205
2021	Vieira, D. H. ; Ozório, M. da S.; Nogueira, G. L. ; Santos, L. F.; Alves, N. UV-photocurrent response of zinc oxide based devices: Application to ZnO/ PEDOT:PSS hydrid Schottky diodes Materials Science in Semiconductor Processing v. 121, p. 105339, 2021 DOI: 10.1016/j.mssp.2020.105339
2021	Abarca, G.; Gonçalves, W. D. G.; Albuquerque, B. L.; Dupont, J.; Prechtl, M. H. G.; Scholten, J. D. Bimetallic RuPd nanoparticles in ionic liquids: selective catalysts for the hydrogenation of aromatic compounds New Journal of Chemistry v.45, n. 1, p. 98-103, 2021 DOI: 10.1039/d0nj02674c
2021	Boni, F. I. ; Cury, B. S. F. ; Ferreira, N. N.; Teixeira, D. A. ; Gremião, M. P. D. Computational and experimental approaches for chitosan-based nano PECs design: Insights on a deeper comprehension of nanostructure formation Carbohydrate Polymers v.254, p. 117444, 2021 DOI: 10.1016/j.carbpol.2020.117444
2021	Pretto, T.; Baum, F. ; Andrade, G. F. S.; Santos, M. J. L. Design of experiments a powerful tool to improve the selectivity of copper antimony sulfide nanoparticles synthesis

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	CrystEngComm v.23, n. 2, p. 397-403, 2021 DOI: 10.1039/d0ce01563f
2021	Ataide, V. N.; Ameku, W. A.; Bacil, R. P. ; Angnes, L.; Araújo, W. R.; Paixão, T. R. L. C. da Enhanced performance of pencil-drawn paperbased electrodes by laser-scribing treatment RSC Advances v.11, n. 3, p. 1644-1653, 2021 DOI: 1039/d0ra08874a
2021	Godoy, N. V.; Galazzi, R. M. ; Chacón-Madrid, K.; Arruda, M. A. Z.; Mazali, I. O. Evaluating the total gold concentration in metallic nanoparticles with a high content of organic matter through microwave-assisted decomposition platform and plasma-based spectrometric techniques (ICP-MS and ICP OES) Talanta v.224, p. 121808, 2021 DOI: 10.1016/j.talanta.2020.121808
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