

Petr Brůžda

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

969
citations

623188

14
h-index

454577

30
g-index

38
all docs

38
docs citations

38
times ranked

1426
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogen positions in single nanocrystals revealed by electron diffraction. <i>Science</i> , 2017, 355, 166-169.	6.0	203
2	Specifics of the data processing of precession electron diffraction tomography data and their implementation in the program <i>PETS2.0</i> . <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2019, 75, 512-522.	0.5	133
3	Electron diffraction determines molecular absolute configuration in a pharmaceutical nanocrystal. <i>Science</i> , 2019, 364, 667-669.	6.0	123
4	Synthesis of Discrete CHA Zeolite Nanocrystals without Organic Templates for Selective CO ₂ Capture. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 23491-23495.	7.2	61
5	Phosphinic Acid Based Linkers: Building Blocks in Metal-Organic Framework Chemistry. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 5016-5019.	7.2	53
6	Î±-Fe ₂ O ₃ versus Î²-Fe ₂ O ₃ : Controlling the Phase of the Transformation Product of Î±-Fe ₂ O ₃ in the Fe ₂ O ₃ /SiO ₂ System. <i>Crystal Growth and Design</i> , 2014, 14, 1039-1046.	1.4	45
7	The magnetic transition in Î±-Fe ₂ O ₃ nanoparticles: Magnetic properties and hyperfine interactions from Mössbauer spectroscopy. <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	38
8	Ta ₃ Nanofibers: Layered Trichalcogenide for High-Performance Electronic and Sensing Devices. <i>ACS Nano</i> , 2018, 12, 464-473.	7.3	30
9	Novel sol-gel method for preparation of high concentration Î±-Fe ₂ O ₃ /SiO ₂ nanocomposite. <i>Journal of Sol-Gel Science and Technology</i> , 2009, 51, 78-83.	1.1	29
10	Studies on the crystal structure and arrangement of water in sitagliptin-tartrate hydrates. <i>CrystEngComm</i> , 2016, 18, 3819-3831.	1.3	27
11	Hematite: Morin temperature of nanoparticles with different size. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 475, 611-619.	1.0	25
12	Identification of ferric oxide polymorphs in nanoparticles prepared by sol-gel method and maximization of Î±-Fe ₂ O ₃ content. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 472, 96-103.	1.0	22
13	Nanomagnets for ultra-high field MRI: Magnetic properties and transverse relaxivity of silica-coated Î±-Fe ₂ O ₃ . <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 480, 154-163.	1.0	20
14	Cerium Oxalate Morphotypes: Synthesis and Conversion into Nanocrystalline Oxide. <i>Inorganic Chemistry</i> , 2019, 58, 10111-10118.	1.9	16
15	Phosphinic Acid Based Linkers: Building Blocks in Metal-Organic Framework Chemistry. <i>Angewandte Chemie</i> , 2018, 130, 5110-5113.	1.6	14
16	Preparation of Yb ₂ O ₃ submicron- and nano-materials via electrospinning. <i>Ceramics International</i> , 2015, 41, 10795-10802.	2.3	13
17	Thermal stability of nanocrystalline Î±-Fe ₂ O ₃ . <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 117, 85-91.	2.0	11
18	Spin state and satellite structures of Î±-Fe ₂ O ₃ as determined by resonant photoelectron spectroscopy. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015, 364, 127-131.	0.6	11

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19	Study of the phase composition of Fe_2O_3 and $\text{Fe}_2\text{O}_3/\text{TiO}_2$ nanoparticles using X-ray diffraction and Debye formula. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010, 7, 1399-1404.	0.8	10
20	Synthesis of Discrete CHA Zeolite Nanocrystals without Organic Templates for Selective CO_2 Capture. <i>Angewandte Chemie</i> , 2020, 132, 23697-23701.	1.6	10
21	Magnetic nanoparticles of Ga-substituted Fe_2O_3 for biomedical applications: Magnetic properties, transverse relaxivity, and effects of silica-coated particles on cytoskeletal networks. <i>Journal of Biomedical Materials Research - Part A</i> , 2020, 108, 1563-1578.	2.1	9
22	Unusual ferroelectric and magnetic phases in multiferroic $\text{La}_2\text{Hf}_2\text{O}_7$ ceramics. <i>Physical Review B</i> , 2017, 95, .	1.8	8
23	Novel Cerium Bisphosphinate Coordination Polymer and Unconventional Metal-Organic Framework. <i>Crystals</i> , 2019, 9, 303.	1.0	8
24	Calcium-induced cation ordering and large resistivity decrease in $\text{Pr}_0.3\text{CoO}_2$. <i>Journal of Physics and Chemistry of Solids</i> , 2016, 96-97, 10-16.	1.9	7
25	Impact of silica environment on hyperfine interactions in Fe_2O_3 nanoparticles. <i>Hyperfine Interactions</i> , 2016, 237, 1.	0.2	6
26	Cu-Si nanoobjects prepared by CVD on Cu/Cu 5 Si-substrates using various precursors (SiH_4 , EtSiH_3 , TjEtQqO , rgBT). <i>Overlock</i> 10/5	0.7	5
27	The $\mu\text{-AlxFe}_{2-x}\text{O}_3$ nanomagnets as MRI contrast agents: Factors influencing transverse relaxivity. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 589, 124423.	2.3	5
28	Mapping of reciprocal space of $\text{La}_{0.30}\text{CoO}_2$ in 3D: Analysis of superstructure diffractions and intergrowths with Co_3O_4 . <i>Journal of Solid State Chemistry</i> , 2015, 227, 30-34.	1.4	4
29	Silicene-terminated surface of calcium and strontium disilicides: properties and comparison with bulk structures by computational methods. <i>Philosophical Magazine</i> , 2018, 98, 1131-1150.	0.7	4
30	Phosphinate MOFs Formed from Tetratopic Ligands as Proton-Conductive Materials. <i>Inorganic Chemistry</i> , 2022, , .	1.9	4
31	Structural study of layered cobaltate $\text{La}_2\text{Co}_2\text{O}_7$.  overflow="scroll" >		

#	ARTICLE	IF	CITATIONS
37	High-Coercivity Iron Oxide Based Nanocomposites -Particle Shape and Magnetic Structure by Synchrotron and Neutron Scattering. IOP Conference Series: Materials Science and Engineering, 2011, 18, 022010.	0.3	0
38	Electron Diffraction as a Tool for Hydrogen Atom Localization and Absolute Structure Determination of Nanocrystals Containing Organic Molecules. Microscopy and Microanalysis, 2020, 26, 740-742.	0.2	0