Petr BrÃ¡zda

List of Publications by Year
in descending order

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	Phosphinate MOFs Formed from Tetratopic Ligands as Proton-Conductive Materials. Inorganic Chemistry, 2022, , .	1.9	4
2	Magnetic properties, 57Fe MÃ¶ssbauer spectroscopy and 1H NMR relaxometry of Îµ-Fe2â^'xGaxO3 nanoparticles: The effect of gallium doping on magnetic and MRI performance. Journal of Alloys and Compounds, 2021, 856, 158187.	2.8	2
3	The Îµ-AlxFe2-xO3 nanomagnets as MRI contrast agents: Factors influencing transverse relaxivity. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 589, 124423.	2.3	5
4	Cleaving silicene-terminated calcium disilicide in the transmission electron microscope. Nanotechnology, 2020, 31, 095702.	1.3	2
5	Synthesis of Discrete CHA Zeolite Nanocrystals without Organic Templates for Selective CO 2 Capture. Angewandte Chemie, 2020, 132, 23697-23701.	1.6	10
6	Synthesis of Discrete CHA Zeolite Nanocrystals without Organic Templates for Selective CO₂ Capture. Angewandte Chemie - International Edition, 2020, 59, 23491-23495.	7.2	61
7	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
8	Magnetic nanoparticles of Gaâ€substituted <scp>Îµâ€Fe₂O₃</scp> for biomedical applications: Magnetic properties, transverse relaxivity, and effects of silicaâ€coated particles on cytoskeletal networks. Journal of Biomedical Materials Research - Part A, 2020, 108, 1563-1578.	2.1	9
9	Specifics of the data processing of precession electron diffraction tomography data and their implementation in the program PETS2.0. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2019, 75, 512-522.	0.5	133
10	Cerium Oxalate Morphotypes: Synthesis and Conversion into Nanocrystalline Oxide. Inorganic Chemistry, 2019, 58, 10111-10118.	1.9	16
11	Novel Cerium Bisphosphinate Coordination Polymer and Unconventional Metalâ€“Organic Framework. Crystals, 2019, 9, 303.	1.0	8
12	Electron diffraction determines molecular absolute configuration in a pharmaceutical nanocrystal. Science, 2019, 364, 667-669.	6.0	123
13	Nanomagnets for ultra-high field MRI: Magnetic properties and transverse relaxivity of silica-coated Îµ-Fe2O3. Journal of Magnetism and Magnetic Materials, 2019, 480, 154-163.	1.0	20
14	Hematite: Morin temperature of nanoparticles with different size. Journal of Magnetism and Magnetic Materials, 2019, 475, 611-619.	1.0	25
15	Identification of ferric oxide polymorphs in nanoparticles prepared by sol-gel method and maximization of Îµ-Fe2O3 content. Journal of Magnetism and Magnetic Materials, 2019, 472, 96-103.	1.0	22
16	Phosphinic Acid Based Linkers: Building Blocks in Metalâ€“Organic Framework Chemistry. Angewandte Chemie - International Edition, 2018, 57, 5016-5019.	7.2	53
17	Phosphinic Acid Based Linkers: Building Blocks in Metalâ€“Organic Framework Chemistry. Angewandte Chemie, 2018, 130, 5110-5113.	1.6	14
18	Silicene-terminated surface of calcium and strontium disilicides: properties and comparison with bulk structures by computational methods. Philosophical Magazine, 2018, 98, 1131-1150.	0.7	4

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19	TaS₃ Nanofibers: Layered Trichalcogenide for High-Performance Electronic and Sensing Devices. ACS Nano, 2018, 12, 464-473.	7.3	30
20	Hydrogen positions in single nanocrystals revealed by electron diffraction. Science, 2017, 355, 166-169.	6.0	203
21	Cu-Si nanoobjects prepared by CVD on Cu/Cu 5 Si-substrates using various precursors (SiH 4 , EtSiH 3 ,) Tj ETQq1 1 0.784314 rgBT /Ov	0.7	5
22	Phase transitions of Cu 3+x Si observed by temperature-dependent x-ray powder diffraction. Intermetallics, 2017, 91, 129-139.	1.8	3
23	Unusual ferroelectric and magnetic phases in multiferroic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>2</mml:mn><mml:msub><mml:mrow><mml:mi>H</mml:mi> ceramics. Physical Review B, 2017, 95, .	1.1	8
24	Crystal structures of Î·â€²â€²-Cu_{3+x}Si and Î·â€²â€²â€²-Cu_{3+x}Si. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2017, 73, 767-774.	0.5	3
25	Impact of silica environment on hyperfine interactions in ?-Fe2O3 nanoparticles. Hyperfine Interactions, 2016, 237, 1.	0.2	6
26	Calcium-induced cation ordering and large resistivity decrease in Pr0.3CoO2. Journal of Physics and Chemistry of Solids, 2016, 96-97, 10-16.	1.9	7
27	Studies on the crystal structure and arrangement of water in sitagliptin<scp>I</scp>-tartrate hydrates. CrystEngComm, 2016, 18, 3819-3831.	1.3	27
28	Structural study of layered cobaltate <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0001.gif" overflow="scroll"><mml:msub><mml:mrow><mml:mi>La</mml:mi></mml:mrow><mml:mrow><mml:mi>x</mml:mi><mml:mo>/</mml:		

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37	Study of the phase composition of Fe₂O₃ and Fe₂O₃/TiO₂ nanoparticles using Xâ€ray diffraction and Debye formula. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 1399-1404.	0.8	10
38	Novel solâ€“gel method for preparation of high concentration Îµ-Fe2O3/SiO2 nanocomposite. Journal of Sol-Gel Science and Technology, 2009, 51, 78-83.	1.1	29