Pavel Veverka

List of Publications by Year
in descending order

41 papers	1,614 citations	430874 18 h-index	289244 40 g-index
42 all docs	42 docs citations	42 times ranked	2196 citing authors

#	Article	IF	Citations
1	Magnetic nanoparticle design for medical applications. Progress in Solid State Chemistry, 2006, 34, 237-247.	7.2	465
2	Lanthanum manganese perovskite nanoparticles as possible in vivo mediators for magnetic hyperthermia. Journal of Magnetism and Magnetic Materials, 2006, 302, 315-320.	2.3	155
3	Mechanism of hypercrosslinking of chloromethylated styreneâ€“divinylbenzene copolymers. Reactive and Functional Polymers, 1999, 41, 21-25.	4.1	118
4	Search of new core materials for magnetic fluid hyperthermia: Preliminary chemical and physical issues. Progress in Solid State Chemistry, 2009, 37, 1-14.	7.2	84
5	Magnetic heating by cobalt ferrite nanoparticles. Nanotechnology, 2007, 18, 345704.	2.6	83
6	Silica encapsulated manganese perovskite nanoparticles for magnetically induced hyperthermia without the risk of overheating. Nanotechnology, 2009, 20, 275610.	2.6	65
7	The magnetic and hyperthermia studies of bare and silica-coated La0.75Sr0.25MnO3 nanoparticles. Journal of Nanoparticle Research, 2011, 13, 1237-1252.	1.9	50
8	Synthesis and magnetic properties of Co1â^'xZnxFe2O4+Î³ nanoparticles as materials for magnetic fluid hyperthermia. Journal of Magnetism and Magnetic Materials, 2010, 322, 2386-2389.	2.3	47
9	Magnetic heating by silica-coated Coâ€“Zn ferrite particles. Journal Physics D: Applied Physics, 2014, 47, 065503.	2.8	47
10	Influence of surface and finite size effects on the structural and magnetic properties of nanocrystalline lanthanum strontium perovskite manganites. Journal of Solid State Chemistry, 2013, 204, 373-379.	2.9	44
11	Towards a versatile platform based on magnetic nanoparticles for in vivo applications. Bulletin of Materials Science, 2006, 29, 581-586.	1.7	40
12	Influence of hypercrosslinking on adsorption and absorption on or in styrenic polymers. Reactive and Functional Polymers, 2004, 59, 71-79.	4.1	37
13	Coreâ€“shell La _{1â^' x} Sr _x MnO ₃ nanoparticles as colloidal mediators for magnetic fluid hyperthermia. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 4389-4405.	3.4	37
14	Dual imaging probes for magnetic resonance imaging and fluorescence microscopy based on perovskite manganite nanoparticles. Journal of Materials Chemistry, 2011, 21, 157-164.	6.7	35
15	The magnetic and neutron diffraction studies of La1â^'Sr MnO3 nanoparticles prepared via molten salt synthesis. Journal of Solid State Chemistry, 2015, 221, 364-372.	2.9	25
16	Sr-hexaferrite/maghemite composite nanoparticlesâ€”possible new mediators for magnetic hyperthermia. Nanotechnology, 2008, 19, 215705.	2.6	24
17	Silica-coated manganite and Mn-based ferrite nanoparticles: a comparative study focused on cytotoxicity. Journal of Nanoparticle Research, 2016, 18, 1.	1.9	21
18	Trapping and Recombination Centers in Cesium Hafnium Chloride Single Crystals: EPR and TSL Study. Journal of Physical Chemistry C, 2019, 123, 19402-19411.	3.1	19

#	Article	IF	Citations
19	Mn-Zn ferrite nanoparticles coated with mesoporous silica as core material for heat-triggered release of therapeutic agents. Journal of Magnetism and Magnetic Materials, 2019, 475, 429-435.	2.3	19
20	Strontium ferrite nanoparticles synthesized in presence of polyvinylalcohol: Phase composition, microstructural and magnetic properties. Journal of Magnetism and Magnetic Materials, 2007, 309, 106-112.	2.3	18
21	A55Mn NMR study of the La0.75Sr0.25MnO3 nanoparticles. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 155-158.	0.8	16
22	Silicaâ€coated La_{0.75}Sr_{0.25}MnO₃ nanoparticles for magnetically driven DNA isolation. Journal of Separation Science, 2011, 34, 3077-3082.	2.5	16
23	The effect of magnetic nanoparticles on neuronal differentiation of induced pluripotent stem cell-derived neural precursors. International Journal of Nanomedicine, 2016, Volume 11, 6267-6281.	6.7	16
24	The impact of silica encapsulated cobalt zinc ferrite nanoparticles on DNA, lipids and proteins of rat bone marrow mesenchymal stem cells. Nanotoxicology, 2016, 10, 662-670.	3.0	15
25	Poly(p-phenylenediamine)/maghemite composite as highly effective adsorbent for anionic dye removal. Reactive and Functional Polymers, 2020, 146, 104436.	4.1	14
26	Magnetic La1â^'x Sr x MnO3 nanoparticles as contrast agents for MRI: the parameters affecting 1H transverse relaxation. Journal of Nanoparticle Research, 2015, 17, 1.	1.9	12
27	Clusters of Magnetic Nanoparticles as Contrast Agents for MRI: Effect of Aggregation on Transverse Relaxivity. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	11
28	Mnâ€“Zn Ferrite Nanoparticles With Silica and Titania Coatings: Synthesis, Transverse Relaxivity, and Cytotoxicity. IEEE Transactions on Magnetics, 2017, 53, 1-8.	2.1	11
29	Using ferromagnetic nanoparticles with low Curie temperature for magnetic resonance imaging-guided thermoablation. International Journal of Nanomedicine, 2016, Volume 11, 3801-3811.	6.7	10
30	Transverse Relaxivity of Nanoparticle Contrast Agents for MRI: Different Magnetic Cores and Coatings. IEEE Transactions on Magnetics, 2018, 54, 1-5.	2.1	9
31	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.	4.0	9
32	Manganese Perovskite Nanoparticles and the Downturn of Inverse Susceptibility above the Curie Temperature. Acta Physica Polonica A, 2010, 118, 792-793.	0.5	8
33	Magnetic properties of rare-earth-doped La0.7Sr0.3MnO3. Journal of Physics Condensed Matter, 2017, 29, 035803.	1.8	7
34	The Îµ-AlxFe2-xO3 nanomagnets as MRI contrast agents: Factors influencing transverse relaxivity. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 589, 124423.	4.7	5
35	Nuclear Magnetic Resonance in Hexaferrite/Maghemite Composite Nanoparticles. Acta Physica Polonica A, 2015, 127, 514-516.	0.5	4
36	High-field magnetoconductance in La-Sr manganites of FM and AFM ground states. Journal of Magnetism and Magnetic Materials, 2018, 456, 167-178.	2.3	4

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37	Rod-like particles of silica-coated maghemite: Synthesis via akaganeite, characterization and biological properties. Journal of Magnetism and Magnetic Materials, 2019, 476, 149-156.	2.3	4
38	Temperature and field dependences of transverse relaxivity of Coâ€“Zn ferrite nanoparticles coated with silica: The role of magnetic properties and different regimes. Materials Chemistry and Physics, 2021, 260, 124178.	4.0	3
39	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.	5.5	2
40	Surface Effect of Iron Oxide Nanoparticles on the Suppression of Oxidative Burst in Cells. Journal of Cluster Science, 0, , 1.	3.3	2
41	Microwave Investigation of Greigite Nanoparticles Magnetic Properties. , 2020, , .		0