Jozef KovÃ¡Ä•

List of Publications by Year
in descending order

35 papers	357 citations	840585 11 h-index	839398 18 g-index
35 all docs	35 docs citations	35 times ranked	591 citing authors

#	Article	IF	Citations
1	The cytotoxicity of iron oxide nanoparticles with different modifications evaluated in vitro. Journal of Magnetism and Magnetic Materials, 2015, 380, 85-89.	1.0	49
2	Magnetic nanocomposites of periodic mesoporous silica: The influence of the silica substrate dimensionality on the inter-particle magnetic interactions. Journal of Alloys and Compounds, 2014, 582, 483-490.	2.8	40
3	Insight into surface heterogenity of SBA-15 silica: Oxygen related defects and magnetic properties. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2010, 357, 97-104.	2.3	31
4	Magnetic properties and magneto-caloric effect in pseudo-binary intermetallic (Ce,R)2Fe17 compounds (RÂ=ÂY, Pr and Dy). Intermetallics, 2011, 19, 982-987.	1.8	29
5	Structuralization of magnetic nanoparticles in 5CB liquid crystals. Soft Matter, 2017, 13, 7890-7896.	1.2	24
6	Magnetocaloric effect of the LaFe11.2Co0.7Si1.1 modified by partial substitution of La by Pr or Ho. Materials and Design, 2017, 129, 111-115.	3.3	22
7	Biasing a ferronematic â€“ a new way to detect weak magnetic field. Soft Matter, 2016, 12, 5780-5786.	1.2	14
8	Magnetic properties of carbon nanodisk and nanocone powders. Physical Review B, 2013, 87, .	1.1	12
9	The study of magnetic properties and relaxation processes in Co/Au bimetallic nanoparticles. Journal of Alloys and Compounds, 2015, 649, 104-111.	2.8	12
10	Magnetic Freedericksz transition in a ferronematic liquid crystal doped with spindle magnetic particles. Journal of Molecular Liquids, 2018, 267, 390-397.	2.3	12
11	Zn source-dependent magnetic properties of undoped ZnO nanoparticles from mechanochemically derived hydrozincite. Journal of Alloys and Compounds, 2019, 787, 1249-1259.	2.8	12
12	The influence of partial substitution of La by Dy on structure and thermomagnetic properties of the LaFe 11.0 Co 0.7 Si 1.3 alloy. Journal of Magnetism and Magnetic Materials, 2018, 454, 298-303.	1.0	11
13	Magneto-caloric effect in the pseudo-binary intermetallic YPrFe17 compound. Materials Chemistry and Physics, 2011, 131, 18-22.	2.0	9
14	Low-field and high-field magnetic resonance contrast imaging of magnetoferritin as a pathological model system of iron accumulation. Journal Physics D: Applied Physics, 2017, 50, 365401.	1.3	8
15	Magnetocaloric effect and scaling analysis in superspinglass cobalt based nanoparticles. Journal of Alloys and Compounds, 2019, 805, 767-773.	2.8	8
16	Evolution of the phase structure after different heat treatments in NiCoFeCrGa high entropy alloy. Journal of Alloys and Compounds, 2018, 743, 234-239.	2.8	6
17	Decomposing the permeability spectra of nanocrystalline finemet core. AIP Advances, 2018, 8, 047205.	0.6	6
18	Influence of synthesis temperature on structural and magnetic properties of magnetoferritin. Mendeleev Communications, 2019, 29, 279-281.	0.6	6

#	ARTICLE	IF	CITATIONS
19	Oxidation-controlled magnetism and Verwey transition in Fe/Fe3O4 lamellae. Journal of Science: Advanced Materials and Devices, 2020, 5, 263-269.	1.5	5
20	Longitudinal and Transverse Relaxivity Analysis of Native Ferritin and Magnetoferritin at 7 T MRI. International Journal of Molecular Sciences, 2021, 22, 8487.	1.8	5
21	Curie temperature changes of Fe-based glassy alloys, induced by electrochemical hydrogen-charging and subsequent discharging. Journal of Magnetism and Magnetic Materials, 2006, 304, e669-e671.	1.0	4
22	Thermal and magnetic properties of Ce5Ni2Si3. Physica B: Condensed Matter, 2006, 378-380, 851-853.	1.3	4
23	Alternating current magnetic susceptibility of a ferronematic. Beilstein Journal of Nanotechnology, 2017, 8, 2515-2520.	1.5	4
24	Dechlorination of 2,4,4â€²-trichlorobiphenyl by magnetoferritin with different loading factors. Chemosphere, 2020, 260, 127629.	4.2	4
25	Martensitic transformation in Fe42Mn28.3Ga29.7 Heusler alloy accompanied with a huge variation of initial permeability. Journal of Alloys and Compounds, 2020, 835, 155346.	2.8	4
26	Hydrogenation caused reversible structural changes in FeCrB type metallic glasses monitored by magnetization parameters. Journal of Alloys and Compounds, 2018, 735, 1591-1595.	2.8	3
27	Clustering in ferronematicsâ€"The effect of magnetic collective ordering. IScience, 2021, 24, 103493.	1.9	3
28	Viscous Phenomena in Magnetic and Thermal Properties of Fe-Ni-Based Glasses Induced by Cryo-Treatments. IEEE Transactions on Magnetics, 2010, 46, 353-356.	1.2	2
29	Magnetoresistance of composites based on graphitic discs and cones. Journal Physics D: Applied Physics, 2014, 47, 335305.	1.3	2
30	Magnetic properties of graphene nanodisk and nanocone powders at low temperatures. Physical Review B, 2015, 92, .	1.1	2
31	Annealing experiments on bulk amorphous alloys around the glass transition temperature. Journal of Magnetism and Magnetic Materials, 2006, 304, e657-e659.	1.0	1
32	Alternating current magnetic susceptibility of ferronematics: The case of high concentration of magnetic nanoparticles. Journal of Magnetism and Magnetic Materials, 2020, 500, 166331.	1.0	1
33	Cluster-Related Phenomena in the Properties and Transformations of Transition Metal-Based Glassy Alloys. Metals, 2020, 10, 1025.	1.0	1
34	The Impact of Redox, Hydrolysis and Dehydration Chemistry on the Structural and Magnetic Properties of Magnetoferritin Prepared in Variable Thermal Conditions. Molecules, 2021, 26, 6960.	1.7	1
35	Experimental assessment of interactions between liquid crystal 4-cyano-4â€™-hexylbiphenyl and magnetoferritin. Mendeleev Communications, 2020, 30, 73-75.	0.6	0