Darja Lisjak

List of Publications by Year
in descending order

117 papers	2,874 citations	159585 30 h-index	206112 48 g-index
120 all docs	120 docs citations	120 times ranked	2723 citing authors

#	Article	IF	Citations
1	Ferromagnetism in suspensions of magnetic platelets in liquid crystal. Nature, 2013, 504, 237-241.	27.8	254
2	Anisotropic magnetic nanoparticles: A review of their properties, syntheses and potential applications. Progress in Materials Science, 2018, 95, 286-328.	32.8	229
3	Spontaneous liquid crystal and ferromagnetic ordering of colloidal magnetic nanoplates. Nature Communications, 2016, 7, 10394.	12.8	94
4	Magneto-optic and converse magnetoelectric effects in a ferromagnetic liquid crystal. Soft Matter, 2014, 10, 9065-9072.	2.7	92
5	Hydrothermal synthesis of ultrafine barium hexaferrite nanoparticles and the preparation of their stable suspensions. Nanotechnology, 2009, 20, 315605.	2.6	87
6	Ferromagnetic nematic liquid crystals. Liquid Crystals Reviews, 2017, 5, 1-33.	4.1	86
7	Hydrothermal Synthesis of Baâ€Hexaferrite Nanoparticles. Journal of the American Ceramic Society, 2007, 90, 2057-2061.	3.8	79
8	Critical Considerations on the Clinical Translation of Upconversion Nanoparticles (UCNPs): Recommendations from the European Upconversion Network (COST Action CM1403). Advanced Healthcare Materials, 2019, 8, e1801233.	7.6	63
9	The hydrothermal synthesis of super-paramagnetic barium hexaferrite particles. Materials Chemistry and Physics, 2011, 127, 415-419.	4.0	58
10	Photoelectrochemical Properties of Cadmium Chalcogenide-Sensitized Textured Porous Zinc Oxide Plate Electrodes. ACS Applied Materials & Interfaces, 2013, 5, 1113-1121.	8.0	57
11	Chemical Substitutionâ€"An Alternative Strategy for Controlling the Particle Size of Barium Ferrite. Crystal Growth and Design, 2012, 12, 5174-5179.	3.0	56
12	Optically Detected Degradation of NaYF₄:Yb,Tm-Based Upconversion Nanoparticles in Phosphate Buffered Saline Solution. Langmuir, 2017, 33, 553-560.	3.5	55
13	Formation of U-type hexaferrites. Journal of Materials Research, 2004, 19, 2462-2470.	2.6	52
14	The mechanism of the low-temperature formation of barium hexaferrite. Journal of the European Ceramic Society, 2007, 27, 4515-4520.	5.7	51
15	Dissolution Mechanism of Upconverting AYF₄:Yb,Tm (A = Na or K) Nanoparticles in Aqueous Media. Langmuir, 2016, 32, 8222-8229.	3.5	49
16	Synthesis and characterization of Aâ€"Sn-substituted (A=Zn, Ni, Co) BaMâ€"hexaferrite powders and ceramics. Journal of the European Ceramic Society, 2004, 24, 1841-1845.	5.7	48
17	The low-temperature formation of barium hexaferrites. Journal of the European Ceramic Society, 2006, 26, 3681-3686.	5.7	48
18	Dissolution of upconverting fluoride nanoparticles in aqueous suspensions. RSC Advances, 2015, 5, 27393-27397.	3.6	44

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19	Nanometerâ€Scale Variations in Interface Potential by Scanning Probe Microscopy. Journal of the American Ceramic Society, 1999, 82, 1941-1944.	3.8	38
20	Synthesis and characterization of Zn2U (Ba4Zn2Fe36O60) hexaferrite powder. Journal of Applied Physics, 2003, 93, 8011-8013.	2.5	38
21	Magnetodielectric and magnetoviscosity response of a ferromagnetic liquid crystal at low magnetic fields. Applied Physics Letters, 2015, 106, .	3.3	37
22	Thermal spraying of Co,Ti-substituted Ba-hexaferrite coatings for electromagnetic wave absorption applications. Surface and Coatings Technology, 2009, 203, 3312-3319.	4.8	36
23	Synthesis and characterization of Mg1+xFe2â^'2xTixO4 nanoparticles with an adjustable Curie point. Journal of Magnetism and Magnetic Materials, 2014, 350, 124-128.	2.3	36
24	The thermal stability range and magnetic properties of U-type hexaferrites. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E1817-E1819.	2.3	35
25	Amphiphilic coatings for the protection of upconverting nanoparticles against dissolution in aqueous media. Dalton Transactions, 2017, 46, 6975-6984.	3.3	35
26	Magnetic-field tuning of whispering gallery mode lasing from ferromagnetic nematic liquid crystal microdroplets. Optics Express, 2017, 25, 1073.	3.4	34
27	The Alignment of Barium Ferrite Nanoparticles from Their Suspensions in Electric and Magnetic Fields. Journal of Physical Chemistry B, 2013, 117, 1644-1650.	2.6	33
28	Monolithic Magneto-Optical Nanocomposites of Barium Hexaferrite Platelets in PMMA. Scientific Reports, 2015, 5, 11395.	3.3	33
29	Preparation of barium hexaferrite coatings using atmospheric plasma spraying. Journal of the European Ceramic Society, 2009, 29, 2333-2341.	5.7	32
30	Investigation of the PTCR effect in ZnOâ€“NiO two-phase ceramics. Solid State Ionics, 1997, 99, 125-135.	2.7	31
31	Field-controlled structures in ferromagnetic cholesteric liquid crystals. Science Advances, 2017, 3, e1701336.	10.3	31
32	Magneto-optic dynamics in a ferromagnetic nematic liquid crystal. Physical Review E, 2018, 97, 012701.	2.1	30
33	Barium hexaferrite suspensions for electrophoretic deposition. Journal of Colloid and Interface Science, 2009, 337, 456-463.	9.4	29
34	Dynamic Magneto-optic Coupling in a Ferromagnetic Nematic Liquid Crystal. Physical Review Letters, 2017, 119, 097802.	7.8	29
35	Thermal instability of Co-substituted barium hexaferrites with U-type structure. Journal of Materials Research, 2006, 21, 420-427.	2.6	28
36	A two-step synthesis of NiZnâ€“W hexaferrites. Journal of the European Ceramic Society, 2008, 28, 2057-2062.	5.7	28

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37	Characterisation of plasma-sprayed SrFe12O19 coatings for electromagnetic wave absorption. Journal of the European Ceramic Society, 2011, 31, 1439-1449.	5.7	27
38	Discrete evolution of the crystal structure during the growth of Ba-hexaferrite nanoplatelets. Nanoscale, 2018, 10, 14480-14491.	5.6	27
39	The Concept of a Lowâ€Temperature Synthesis for Superparamagnetic BaFe₁₂O₁₉ Particles. Journal of the American Ceramic Society, 2010, 93, 1602-1607.	3.8	26
40	Incorporation of Sc into the structure of barium-hexaferrite nanoplatelets and its extraordinary finite-size effect on the magnetic properties. Acta Materialia, 2019, 172, 84-91.	7.9	24
41	Contactless electroporation induced by high intensity pulsed electromagnetic fields via distributed nanoelectrodes. Bioelectrochemistry, 2020, 132, 107440.	4.6	24
42	Cation Orderâ€“Disorder Transition in Fe-Doped 6H-BaTiO₃ for Dilute Room-Temperature Ferromagnetism. Chemistry of Materials, 2013, 25, 3544-3550.	6.7	23
43	Preparation of Oriented Barium Hexaferrite Films by Electrophoretic Deposition. Journal of the American Ceramic Society, 2011, 94, 3373-3379.	3.8	22
44	The influence of microstructure on the microwave absorption of Coâ€“U hexaferrites. Journal of Magnetism and Magnetic Materials, 2007, 310, 2558-2560.	2.3	21
45	Control of barium ferrite decomposition during spark plasma sintering: Towards nanostructured samples with anisotropic magnetic properties. Journal of the European Ceramic Society, 2014, 34, 337-346.	5.7	20
46	Ferromagnetic liquid crystals for magnetic field visualisation. Liquid Crystals, 2015, 42, 1684-1688.	2.2	20
47	Microwave ferromagnetic resonance of cobalt and nickel substituted U-type hexaferrites. IEEE Transactions on Magnetics, 2005, 41, 3472-3474.	2.1	19
48	Magnetically controllable random laser in ferromagnetic nematic liquid crystals. Optics Express, 2019, 27, 24426.	3.4	19
49	Composite ceramics with a positive temperature coefficient of electrical resistivity effect. Journal of Materials Research, 2000, 15, 417-428.	2.6	18
50	Ferromagnetic Resonance and Microwave Behavior of ASn-Substituted (A${=}$Ni-Co-Zn) BaM-Hexaferrites. IEEE Transactions on Magnetics, 2007, 43, 2636-2638.	2.1	18
51	Directed Assembly of BaFe₁₂O₁₉ Particles and the Formation of Magnetically Oriented Films. Langmuir, 2011, 27, 14014-14024.	3.5	18
52	Structural and morphological transformations of textural porous zinc sulfide microspheres. Microporous and Mesoporous Materials, 2013, 165, 185-192.	4.4	18
53	Director reorientation dynamics of ferromagnetic nematic liquid crystals. Soft Matter, 2018, 14, 7180-7189.	2.7	17
54	Development of Ba-hexaferrite coatings for electromagnetic wave absorption applications. Surface and Coatings Technology, 2010, 205, 1015-1020.	4.8	16

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55	The low-temperature sintering of M-type hexaferrites. Journal of the European Ceramic Society, 2012, 32, 3351-3360.	5.7	16
56	Evolution of nematic and ferromagnetic ordering in suspensions of magnetic nanoplatelets. Soft Matter, 2019, 15, 5412-5420.	2.7	16
57	Magnetic Nanoplatelets for High Contrast Cardiovascular Imaging by Magnetically Modulated Optical Coherence Tomography. ChemPhotoChem, 2019, 3, 529-539.	3.0	16
58	A functionalization strategy for the dispersion of permanently magnetic barium-hexaferrite nanoplatelets in complex biological media. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 573, 119-127.	4.7	15
59	Magneto-mechanical actuation of barium-hexaferrite nanoplatelets for the disruption of phospholipid membranes. Journal of Colloid and Interface Science, 2020, 579, 508-519.	9.4	15
60	The influence of the coprecipitation conditions on the low-temperature formation of barium hexaferrite. Journal of Materials Science, 2007, 42, 8606-8612.	3.7	14
61	Influence of the Morphology of Ferrite Nanoparticles on the Directed Assembly into Magnetically Anisotropic Hierarchical Structures. Langmuir, 2014, 30, 6588-6595.	3.5	14
62	Electrostatic Interactions between Barium Hexaferrite Nanoplatelets in Alcohol Suspensions. Journal of Physical Chemistry C, 2019, 123, 23272-23279.	3.1	13
63	Thermal Stability of (Co,Cu)Z-Hexaferrite and Its Compatibility with Ag at 900Â°C. Journal of the American Ceramic Society, 2007, 90, 3517-3521.	3.8	12
64	Magnetically tunable optical diffraction gratings based on a ferromagnetic liquid crystal. Optics Express, 2019, 27, 8900.	3.4	12
65	The Synthesis and Properties of Magnetic Nanoparticles. Materials Science Forum, 2005, 494, 129-136.	0.3	11
66	Hexaferrite/polyethylene composite coatings prepared with flame spraying. Materials Letters, 2011, 65, 534-536.	2.6	11
67	The Lowâ€Temperature Sintering Mechanism of <scp><scp>Sr</scp></scp> Hexaferrite Using the Addition of <scp><scp>CuO</scp></scp>. Journal of the American Ceramic Society, 2012, 95, 3025-3030.	3.8	11
68	Magnetic Heating of Nanoparticles Applied in the Synthesis of a Magnetically Recyclable Hydrogenation Nanocatalyst. Nanomaterials, 2020, 10, 1142.	4.1	11
69	Interference effect between superparamagnetic and spin glass correlated moments in a system of dispersed Co₃O₄nanocrystallites. Journal of Physics Condensed Matter, 2009, 21, 095303.	1.8	10
70	Hydrothermal synthesis of La1â^'XSrXMnO3 dendrites. Journal of Crystal Growth, 2013, 375, 78-83.	1.5	10
71	Evolution of the microstructure during the early stages of sintering barium hexaferrite nanoplatelets. Journal of the European Ceramic Society, 2019, 39, 4831-4841.	5.7	10
72	A surface-chemistry study of barium ferrite nanoplates with DBSa-modified surfaces. Applied Surface Science, 2014, 305, 366-374.	6.1	9

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73	Comparison of dynamic behavior of ferroelectric and ferromagnetic nematic suspensions. Journal of Molecular Liquids, 2018, 267, 377-383.	4.9	9
74	Formation of Fe(III)-phosphonate Coatings on Barium Hexaferrite Nanoplatelets for Porous Nanomagnets. ACS Omega, 2020, 5, 14086-14095.	3.5	9
75	The stability of BaFe12O19 nanoparticles in polar solvents. Journal of Materials Science, 2011, 46, 2851-2859.	3.7	8
76	Hexaferrite/Polyester Composite Coatings for Electromagnetic-Wave Absorbers. Journal of Thermal Spray Technology, 2011, 20, 638-644.	3.1	8
77	Influence of Ag on the Composition and Electromagnetic Properties of Low-Temperature Cofired Hexaferrites. Journal of the American Ceramic Society, 2007, 90, 3121-3126.	3.8	7
78	Magnetic Phase Formation in CoTiâ€Substituted Ba Hexaferrite Coatings Prepared with Atmospheric Plasma Spraying. Journal of the American Ceramic Society, 2010, 93, 2579-2584.	3.8	7
79	The influence of processing parameters on the orientation of barium ferrite platelets during electrophoretic deposition. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2012, 403, 139-147.	4.7	7
80	Xâ€ray Absorption Spectroscopy Studies of the Roomâ€Temperature Ferromagnetic Feâ€Doped 6Hâ€“BaTiO₃. Journal of the American Ceramic Society, 2015, 98, 1156-1161.	3.8	7
81	Formation of phosphonate coatings for improved chemical stability of upconverting nanoparticles under physiological conditions. Dalton Transactions, 2021, 50, 6588-6597.	3.3	7
82	Origin of the Positive Temperature Coefficient of Resistivity Anomaly in the ZnOâ€NiO System. Journal of the American Ceramic Society, 1997, 80, 1741-1748.	3.8	6
83	The application of effective-medium theory for the nondestructive characterization of ceramic composites. Journal of the European Ceramic Society, 2007, 27, 1071-1076.	5.7	6
84	Formation of Columnar Structures by the Magnetically Directed Assembly of Cobalt Ferrite Nanoparticles. IEEE Transactions on Magnetics, 2012, 48, 3303-3306.	2.1	6
85	The influence of material properties on the assembly of ferrite nanoparticles into 3D structures. Materials Chemistry and Physics, 2014, 148, 1131-1138.	4.0	6
86	Suppression of the exaggerated growth of barium ferrite nanoparticles from solution using a partial substitution of Sc3+ for Fe3+. Journal of Nanoparticle Research, 2016, 18, 1.	1.9	6
87	A new polymorph of strontium hexaferrite stabilized at the nanoscale. CrystEngComm, 2020, 22, 7113-7122.	2.6	6
88	Isotropic to nematic transition in alcohol ferrofluids of barium hexaferrite nanoplatelets. Journal of Molecular Liquids, 2022, 348, 118038.	4.9	6
89	Ageing of ZnOâ€“NiO ceramics. Journal of Materials Science, 1998, 33, 4201-4206.	3.7	5
90	Analytical Electron Microscopy Study of a ZnO-NiO Solid Solution. Mikrochimica Acta, 2000, 132, 289-294.	5.0	5

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91	The dispersion of single-domain BaFe12O19 particles in water. Journal of Applied Physics, 2009, 105, 084908.	2.5	5
92	The Preparation of Barium Hexaferrite Coatings Using HVOF. Journal of the American Ceramic Society, 2009, 92, 818-824.	3.8	5
93	The influence of polydispersity on the structural properties of the isotropic phase of magnetic nanoplatelets. Journal of Molecular Liquids, 2020, 312, 113293.	4.9	5
94	Electrical properties of Zn-Ni-O ceramics. Journal of Materials Science Letters, 1997, 16, 304-307.	0.5	4
95	Influence of microstructure and preparation methods on the magneto-crystalline structure and magnetic properties of submicron barium hexaferrite powders. Journal of Materials Research, 2006, 21, 2606-2610.	2.6	4
96	Preparation and characterisation of magnetically ordered columnar structures of barium ferrite particles. Journal of Experimental Nanoscience, 2011, 6, 362-373.	2.4	4
97	The Lowâ€Temperature Cosintering of Cobalt Ferrite and Lead Zirconate Titanate Ceramic Composites. Journal of the American Ceramic Society, 2014, 97, 74-80.	3.8	4
98	Influence of the Synthesis Parameters on the Properties of NaYF4:Yb3+,Tm3+ Nanoparticles. Acta Chimica Slovenica, 2015, 62, 789-795.	0.6	4
99	Surface analyses of barium hexaferrite particles for magnetic suspensions. Surface and Interface Analysis, 2010, 42, 1217-1221.	1.8	3
100	Magnetic dynamics in suspensions of ferrimagnetic platelets. Journal of Molecular Liquids, 2022, 360, 119484.	4.9	3
101	Experimental analysis of short-circuit line technique for measuring permeability of ferromagnetic materials. , 0, , .		2
102	Barium Hexaferrite Prepared by Hydrothermal Synthesis. Materials Science Forum, 2007, 555, 183-187.	0.3	2
103	Optical second harmonic generation in a ferromagnetic liquid crystal. Soft Matter, 2019, 15, 8758-8765.	2.7	2
104	Compatibility Studies of Z- and Y-Type BaCo Hexaferrites for Low-Temperature Co-Firing with Ag. Advances in Science and Technology, 2006, 45, 2539-2544.	0.2	1
105	Oriented Barium Hexaferrite Thick Films Prepared by Electrophoretic Deposition in a Magnetic Field. Advances in Science and Technology, 2010, 67, 92-97.	0.2	1
106	Novel method for fabrication of metal- or oxide-nanoparticle doped silica-based specialty optical fibers. , 2011, , .		1
107	Preparation and characterization of ZnSn-substituted barium ferrite thin films. Journal of Magnetism and Magnetic Materials, 2011, 323, 1465-1469.	2.3	1
108	Thermal Treatment Influence on the Magnetic Properties and Degree of Orientation of BaFe12O19 Films. Journal of Superconductivity and Novel Magnetism, 2012, 25, 2819-2824.	1.8	1

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109	The influence of magnetic interactions and shape anisotropy on the alignment and assembly of BaFe12O19 and Er2O3 nanoplates. Materials Chemistry and Physics, 2014, 148, 311-318.	4.0	1
110	NaYF₄-based upconverting nanoparticles with optimized phosphonate coatings for chemical stability and viability of human endothelial cells. Methods and Applications in Fluorescence, 2022, 10, 014001.	2.3	1
111	New Insights into Amino-Functionalization of Magnetic Nanoplatelets with Silanes and Phosphonates. Nanomaterials, 2022, 12, 2123.	4.1	1
112	Investigation of the Microscopical Origin of the PTCR Anomaly in Two Phase Zn-Ni-O Ceramics. Key Engineering Materials, 1997, 132-136, 1325-1328.	0.4	0
113	The formation of barium hexaferrites using coprecipitation methods. , 2005, , .		0
114	The Synthesis and Properties of Magnetic Nanoparticles. ChemInform, 2006, 37, no.	0.0	0
115	Magnetic Nanoplatelets for High Contrast Cardiovascular Imaging by Magnetically Modulated Optical Coherence Tomography. ChemPhotoChem, 2019, 3, 503-503.	3.0	0
116	Investigation of structural, microstructural and magnetic properties of Yb Y1-F3 solid solutions. Journal of Physics and Chemistry of Solids, 2020, 142, 109449.	4.0	0
117	Preparation of Barium-Hexaferrite/Gold Janus Nanoplatelets Using the Pickering Emulsion Method. Nanomaterials, 2021, 11, 2797.	4.1	0