Alexander I Shames

List of Publications by Year
in descending order

91 papers	1,833 citations	218381 26 h-index	301761 39 g-index
91 all docs	91 docs citations	91 times ranked	2225 citing authors

#	Article	IF	Citations
1	Anomalous Formation of Irradiation-Induced Nitrogen-Vacancy Centers in 5 nm-Sized Detonation Nanodiamonds. Journal of Physical Chemistry C, 2022, 126, 5206-5217.	1.5	6
2	All-inorganic ferric wheel based on hexaniobate-anion linkers. Dalton Transactions, 2022, 51, 8600-8604.	1.6	5
3	Influence of inversion level on the optical absorption spectra of Tiâ€doped transparent MgGa₂O₄ ceramics. Journal of the American Ceramic Society, 2022, 105, 5944-5955.	1.9	1
4	Triphenyllead Hydroperoxide: A 1D Coordination Peroxo Polymer, Single-Crystal-to-Single-Crystal Disproportionation to a Superoxo/Hydroxo Complex, and Application in Catalysis. Inorganic Chemistry, 2022, 61, 8193-8205.	1.9	5
5	Mitochondria membrane transformations in colon and prostate cancer and their biological implications. Biochimica Et Biophysica Acta - Biomembranes, 2021, 1863, 183471.	1.4	8
6	Room-temperature hyperpolarization of polycrystalline samples with optically polarized triplet electrons: pentacene or nitrogen-vacancy center in diamond?. Magnetic Resonance, 2021, 2, 33-48.	0.8	8
7	PVPâ€coated Gdâ€grafted nanodiamonds as a novel and potentially safer contrast agent for in vivo MRI. Magnetic Resonance in Medicine, 2021, 86, 935-942.	1.9	32
8	Comment on â€œSub-5 nm Nanodiamonds Fabricated by Plasma Immersion Ion Implantation as Fluorescent Probesâ€. ACS Applied Nano Materials, 2021, 4, 5621-5623.	2.4	0
9	Soluble Complexes of Cobalt Oxide Fragments Bring the Unique CO₂ Photoreduction Activity of a Bulk Material into the Flexible Domain of Molecular Science. Journal of the American Chemical Society, 2021, 143, 20769-20778.	6.6	30
10	Toward production of diamond particles with improved fluorescence uniformity. Physica B: Condensed Matter, 2020, 579, 411868.	1.3	2
11	Nearâ€Infrared Fluorescence from Siliconâ€ and Nickelâ€Based Color Centers in Highâ€Pressure Highâ€Temperature Diamond Microâ€ and Nanoparticles. Advanced Optical Materials, 2020, 8, 2001047.	3.6	11
12	Enhanced Optical 13 C Hyperpolarization in Diamond Treated by Highâ€Temperature Rapid Thermal Annealing. Advanced Quantum Technologies, 2020, 3, 2000050.	1.8	8
13	Thiourea-Mediated Halogenation of Alcohols. Journal of Organic Chemistry, 2020, 85, 12901-12911.	1.7	17
14	How to Identify, Attribute, and Quantify Triplet Defects in Ensembles of Small Nanoparticles. Journal of Physical Chemistry Letters, 2020, 11, 7438-7442.	2.1	6
15	Identification of Barium Hydroxo-Hydroperoxostannate Precursor for Low-Temperature Formation of Perovskite Barium Stannate. Inorganic Chemistry, 2020, 59, 18358-18365.	1.9	10
16	High Temperature Treatment of Diamond Particles Toward Enhancement of Their Quantum Properties. Frontiers in Physics, 2020, 8, .	1.0	11
17	Photoredoxâ€Mediated Reaction of <i>gem</i>â€Diborylalkenes: Reactivity Toward Diverse 1,1â€Bisborylalkanes. Chemistry - A European Journal, 2020, 26, 5360-5364.	1.7	24
18	Stabilization of Ni(I)(1,4,8,11â€tetraazacyclotetradecane)⁺ in a Solâ€Gel Matrix: It's Plausible Use in Catalytic Processes. Israel Journal of Chemistry, 2020, 60, 557-562.	1.0	4

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19	Sources of parasitic features in the visible range of oxide transparent ceramics absorption spectra. Journal of the American Ceramic Society, 2020, 103, 4803-4821.	1.9	8
20	Examining relaxivities in suspensions of nanodiamonds grafted by magnetic entities: comparison of two approaches. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2020, 33, 885-888.	1.1	4
21	Unusual Stabilization of Zinc Peroxide by Manganese Oxide: Mechanistic Understanding by Temperature-Dependent EPR Studies. Journal of Physical Chemistry C, 2019, 123, 20884-20892.	1.5	10
22	Gd(III)-Grafted Detonation Nanodiamonds for MRI Contrast Enhancement. Journal of Physical Chemistry C, 2019, 123, 2627-2631.	1.5	46
23	Structural Characterization of Reconstituted Bioactive-Loaded Nanodomains after Embedding in Films Using Electron Paramagnetic Resonance and Self-Diffusion Nuclear Magnetic Resonance Techniques. Langmuir, 2019, 35, 7879-7886.	1.6	5
24	Monodisperse Five-Nanometer-Sized Detonation Nanodiamonds Enriched in Nitrogen-Vacancy Centers. ACS Nano, 2019, 13, 6461-6468.	7.3	38
25	Fluorescent Diamond Particles: From Fancy Blue to Red: Controlled Production of a Vibrant Color Spectrum of Fluorescent Diamond Particles (Adv. Funct. Mater. 19/2019). Advanced Functional Materials, 2019, 29, 1970128.	7.8	2
26	Micro-characterization of modified microemulsions loaded with gossypol, pure and extracted from cottonseed. Colloids and Surfaces B: Biointerfaces, 2019, 180, 487-494.	2.5	4
27	Review Article: Synthesis, properties, and applications of fluorescent diamond particles. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2019, 37, 030802.	0.6	115
28	Magnetic resonance study of lightly boron-doped diamond. Materials Research Express, 2019, 6, 075612.	0.8	1
29	From Fancy Blue to Red: Controlled Production of a Vibrant Color Spectrum of Fluorescent Diamond Particles. Advanced Functional Materials, 2019, 29, 1808362.	7.8	29
30	A Surface Study of Ultrathin Ceria Nanoparticles Decorated with Transitionâ€Metal Ions. Particle and Particle Systems Characterization, 2019, 36, 1800452.	1.2	3
31	Photoxidation of Benzyl Alcohol with Heterogeneous Photocatalysts in the UV Range: The Complex Interplay with the Autoxidative Reaction. ChemCatChem, 2018, 10, 2541-2545.	1.8	16
32	Comment on â€œAngstrom-scale probing of paramagnetic center location in nanodiamonds by 3He NMR at low temperaturesâ€• by V. Kuzmin, K. Safiullin, G. Dolgorukov, A. Stanislavovas, E. Alakshin, T. Safin, B. Yavkin, S. Orlinskii, A. Kiiamov, M. Presnyakov, A. Klochkov and M. Tagirov, Phys. Chem. Chem. Phys., 2018, 20, 1476. Physical Chemistry Chemical Physics, 2018, 20, 27694-27696.	1.3	1
33	Evolution of Triplet Paramagnetic Centers in Diamonds Obtained by Sintering of Detonation Nanodiamonds at High Pressure and Temperature. Physics of the Solid State, 2018, 60, 723-729.	0.2	3
34	Does Progressive Nitrogen Doping Intensify Negatively Charged Nitrogen Vacancy Emission from e-Beam-Irradiated Ib Type High-Pressureâ€"High-Temperature Diamonds?. Journal of Physical Chemistry C, 2017, 121, 5232-5240.	1.5	18
35	Behavior of PPI-G2 Dendrimer in a Microemulsion. Journal of Physical Chemistry B, 2017, 121, 2339-2349.	1.2	5
36	Paramagnetic defects in nanodiamonds. , 2017, , 131-154.		9

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37	Light-induced generation of free radicals by fullerene derivatives: an important degradation pathway in organic photovoltaics?. Journal of Materials Chemistry A, 2017, 5, 8044-8050.	5.2	46
38	Fluence-Dependent Evolution of Paramagnetic Triplet Centers in e-Beam Irradiated Microcrystalline Ib Type HPHT Diamond. Journal of Physical Chemistry C, 2017, 121, 22335-22346.	1.5	22
39	Efficient solar cells are more stable: the impact of polymer molecular weight on performance of organic photovoltaics. Journal of Materials Chemistry A, 2016, 4, 7274-7280.	5.2	66
40	Assessing the outdoor photochemical stability of conjugated polymers by EPR spectroscopy. Journal of Materials Chemistry A, 2016, 4, 13166-13170.	5.2	13
41	Magnetic Resonance Study of Gadolinium-Grafted Nanodiamonds. Journal of Physical Chemistry C, 2016, 120, 19804-19811.	1.5	28
42	Direct Synthesis of Polyaryls by Consecutive Oxidative Cross-Coupling of Phenols with Arenes. Organic Letters, 2016, 18, 4324-4327.	2.4	31
43	XRD, NMR, and EPR study of polycrystalline microâ€•and nanoâ€diamonds prepared by a shock wave compression method. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 2400-2409.	0.8	25
44	Comment on â€œQuantification of Câ•C and Câ•O Surface Carbons in Detonation Nanodiamond by NMRâ€• Journal of Physical Chemistry C, 2015, 119, 21286-21287.	1.5	4
45	Size dependence of¹³C nuclear spin-lattice relaxation in micro- and nanodiamonds. Journal of Physics Condensed Matter, 2015, 27, 072203.	0.7	26
46	Magnetic resonance tracking of fluorescent nanodiamond fabrication. Journal Physics D: Applied Physics, 2015, 48, 155302.	1.3	38
47	Native and induced triplet nitrogen-vacancy centers in nano- and micro-diamonds: Half-field electron paramagnetic resonance fingerprint. Applied Physics Letters, 2014, 104, .	1.5	17
48	Influence of chemical treatment on the microstructure of nanographite. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 2765-2772.	0.8	6
49	On the correlation between the structure of lyotropic carriers and the delivery profiles of two common NSAIDs. Colloids and Surfaces B: Biointerfaces, 2014, 122, 231-240.	2.5	27
50	Parasitic Light Absorption Processes in Transparent Polycrystalline <scp><scp>MgAl</scp></scp>₂<scp><scp>O</scp></scp>₄ and <scp>YAG</scp>. Journal of the American Ceramic Society, 2013, 96, 3523-3529.	1.9	20
51	Novel technology for the rapid total mineralization of carbon tetrachloride under ambient conditions. RSC Advances, 2013, 3, 24440.	1.7	6
52	Paramagnetic Impurities in Graphene Oxide. Applied Magnetic Resonance, 2013, 44, 107-116.	0.6	59
53	Examining the binding mechanism of 3,4-dihydro-3-(2-oxo-2-phenylethylidene)-quinoxalin-2(1H)-one and its fragments to Cu2+. Journal of Coordination Chemistry, 2013, 66, 2351-2366.	0.8	2
54	In situ Generation of Superoxide Anion Radical in Aqueous Medium under Ambient Conditions. ChemPhysChem, 2013, 14, 4158-4164.	1.0	28

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55	Nanometer size effects on magnetic order in La1â^'xCaxMnO3 (xâ€‰=â€‰0.5 and 0.6) manganites, probed by ferromagnetic resonance. Journal of Applied Physics, 2012, 111, 07D701.	1.1	7
56	Light-induced electron paramagnetic resonance evidence of charge transfer in electrospun fibers containing conjugated polymer/fullerene and conjugated polymer/fullerene/carbon nanotube blends. Applied Physics Letters, 2012, 100, 113303.	1.5	6
57	W/O Microemulsions as Dendrimer Nanocarriers: An EPR Study. Journal of Physical Chemistry B, 2012, 116, 12633-12640.	1.2	16
58	The redox chemistry of copper tetraphenylporphyrin revisited. Journal of Porphyrins and Phthalocyanines, 2012, 16, 1124-1131.	0.4	7
59	Spin<i>S</i>= 1 centers: a universal type of paramagnetic defects in nanodiamonds of dynamic synthesis. Journal of Physics Condensed Matter, 2012, 24, 225302.	0.7	14
60	Chemical disorder influence on magnetic state of optimally-doped La0.7Ca0.3MnO3. Journal of Applied Physics, 2011, 110, .	1.1	21
61	Factors Affecting DNP NMR in Polycrystalline Diamond Samples. Journal of Physical Chemistry C, 2011, 115, 19041-19048.	1.5	72
62	Diagnostics of plasmon resonance in optical absorption spectra of nanographite aqueous suspensions. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2011, 111, 220-223.	0.2	3
63	Proton magnetic resonance study of diamond nanoparticles decorated by transition metal ions. Journal Physics D: Applied Physics, 2011, 44, 125303.	1.3	40
64	Thermodynamics of Paramagnetic-Ferromagnetic Phase Transition in ${m La}_{0.7}{m Ca}_{0.3}{m MnO}_{3}$ Manganite: â€œGriffiths singularityâ€•versus Chemical Disorder and Lattice Effects. IEEE Transactions on Magnetics, 2010, 46, 1299-1302.	1.2	14
65	Do food microemulsions and dietary mixed micelles interact?. Colloids and Surfaces B: Biointerfaces, 2010, 77, 22-30.	2.5	27
66	Structure and magnetic properties of detonation nanodiamond chemically modified by copper. Journal of Applied Physics, 2010, 107, .	1.1	45
67	Structure and Bonding in Fluorinated Nanodiamond. Journal of Physical Chemistry C, 2010, 114, 774-782.	1.5	51
68	Magnetic Resonance Study of Detonation Nanodiamonds with Surface Chemically Modified by Transition Metal Ions. Applied Magnetic Resonance, 2009, 36, 317-329.	0.6	37
69	Nanometer size effect on magnetic order in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>La</mml:mtext></mml:mrow><mml:mrow><mml:mn>0.4</mm Predominant influence of doped electron localization. Physical Review B, 2008, 78, .	1.1	41
70	EMR Probing of Magnetic Ordering in ${m Pr}_{1-x}{m Sr}_{x}{m MnO}_{3}$ ($x=$ 0.22, 0.24, 0.26) Manganite Single Crystals. IEEE Transactions on Magnetics, 2008, 44, 2918-2921.	1.2	5
71	Inherent inhomogeneity in the crystals of low-doped lanthanum manganites. Applied Physics Letters, 2008, 92, .	1.5	24
72	Comparative Study of Magnetic Ordering in Bulk and Nano-Grained La$_{0.4}$Ca$_{0.6}$MnO$_{3}$ Manganite. IEEE Transactions on Magnetics, 2008, 44, 2914-2917.	1.2	4

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73	Comparative electron magnetic resonance study of magnetic ordering in La1â^'xCaxMnO3 (x=0.1,0.3) bulk and nanometer sized manganite crystals. Journal of Applied Physics, 2008, 103, 07F715.	1.1	8
74	Disorder-induced phase coexistence in bulk doped manganites and its suppression in nanometer-sized crystals: The case ofLa0.9Ca0.1MnO3. Physical Review B, 2007, 76, .	1.1	57
75	Magnetic Correlations and Spin Dynamics in Crystalline La$_{1-x}$Ca$_{x}$MnO$_{3} (x = 0, 0.1, 0.2,) Tj ETQq1 1 0.784314 rgBT /Ov	1.2	18
76	Electron Magnetic Resonance, Neutron Diffraction and ac Susceptibility Study of CaMn1â^'x Ru{ x O3 (x) Tj ETQq0 0 0 rgBT /Overlock 1	0.8	2
77	Nuclear magnetic resonance study of ultrananocrystalline diamonds. European Physical Journal B, 2006, 52, 397-402.	0.6	86
78	Pyrophosphate and ATP as Stabilizing Ligands for High-Valent Nickel Complexes. European Journal of Inorganic Chemistry, 2006, 2006, 523-525.	1.0	2
79	Magnetic phase transition in YCo3B2 studied by magnetic resonance. Journal of Applied Physics, 2005, 98, 074105.	1.1	10
80	Carbon Encapsulated Magnetic Nanoparticles Produced by a Catalytic Disproportionation of Carbon Monoxide. Materials Research Society Symposia Proceedings, 2005, 877, 1.	0.1	0
81	Magnetic resonance study of multiwall boron nitride nanotubes. Physical Review B, 2005, 72, .	1.1	17
82	Silver(II) Complexes of Tetraazamacrocycles: Studies on e.p.r. and Electron Transfer Kinetics with Thiosulfate Ion. Transition Metal Chemistry, 2004, 29, 463-470.	0.7	20
83	Electron magnetic resonance inLa1â^'xCaxMnO3(x=0.18,0.20,0.22):â€ƒCrossing through the boundary between ferromagnetic insulating and metallic ground states. Physical Review B, 2003, 68, .	1.1	46
84	Magnetic, transport, and electron magnetic resonance properties ofPr0.8Ca0.2MnO3single crystals. Physical Review B, 2003, 68, .	1.1	29
85	Effect of chemical treatment on the structure of ultradisperse diamond and onion-like carbon. AIP Conference Proceedings, 2001, , .	0.3	1
86	Observation of magnetic inhomogeneities in crystalline-doped manganites by electron magnetic resonance. Physical Review B, 2001, 64, .	1.1	71
87	Polysilyl radicals: EPR study of the formation and decomposition of star polysilanes. Applied Magnetic Resonance, 2000, 18, 425-434.	0.6	28
88	EPR spin labeling study of conformational transitions of Î²-glycosidase from the hyperthermophilic archaeonSulfolobus solfataricus expressed inEscherichia coli. Applied Magnetic Resonance, 2000, 18, 515-526.	0.6	3
89	Spin Diffusion in Pure Multiple-Pulse NQR. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2000, 55, 54-60.	0.7	5
90	NMR Studies of electrostatic fields around charged monosaccharides and related molecules. Israel Journal of Chemistry, 2000, 40, 263-269.	1.0	4

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91	Changes in the photoelectrical properties and generation of photoinduced defects under light/air exposure of C60 thin films. Journal of Applied Physics, 1998, 84, 3333-3337.	1.1	23