

# George Mamin

## List of Publications by Year in descending order

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49  
papers

615  
citations

623734

14  
h-index

642732

23  
g-index

50  
all docs

50  
docs citations

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times ranked

844  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enormously High Concentrations of Fluorescent Nitrogen Vacancy Centers Fabricated by Sintering of Detonation Nanodiamonds. <i>Small</i> , 2011, 7, 1533-1537.	10.0	62
2	Toward the Asphaltene Structure by Electron Paramagnetic Resonance Relaxation Studies at High Fields (3.4 T). <i>Energy &amp; Fuels</i> , 2016, 30, 6942-6946.	5.1	45
3	Electron Paramagnetic Resonance Study of Rotational Mobility of Vanadyl Porphyrin Complexes in Crude Oil Asphaltenes: Probing the Effect of Thermal Treatment of Heavy Oils. <i>Energy &amp; Fuels</i> , 2014, 28, 6683-6687.	5.1	44
4	Quantitative Analysis of Lewis Acid Centers of $\gamma$ -Alumina by Using EPR of the Adsorbed Anthraquinone as a Probe Molecule: Comparison with the Pyridine, Carbon Monoxide IR, and TPD of Ammonia. <i>Journal of Physical Chemistry C</i> , 2015, 119, 27410-27415.	3.1	41
5	Study of structural and dynamic characteristics of copper(ii) amino acid complexes in solutions by combined EPR and NMR relaxation methods. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 9411.	2.8	40
6	Pb <sup>3+</sup> radiation defects in Ca <sub>9</sub> Pb(PO <sub>4</sub> ) <sub>6</sub> (OH) <sub>2</sub> hydroxyapatite nanoparticles studied by high-field (W-band) EPR and ENDOR. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 2246.	2.8	30
7	Coherent spin manipulations in $\text{Yb}^{3+}$ ions. <i>Physical Review B</i> , 2009, 79, 035411.	3.2	25
8	Electron spin resonance detection and identification of nitrogen centers in nanodiamonds. <i>JETP Letters</i> , 2009, 89, 409-413.	1.4	24
9	Structure and Dynamics of Solvation Shells of Copper(II) Complexes with N,O-Containing Ligands. <i>Inorganic Chemistry</i> , 2015, 54, 9777-9784.	4.0	22
10	Electron paramagnetic resonance detection of the giant concentration of nitrogen vacancy defects in sintered detonation nanodiamonds. <i>JETP Letters</i> , 2010, 92, 102-106.	1.4	19
11	High-frequency pulsed ENDOR spectroscopy of the NV <sup>0</sup> centre in the commercial HPHT diamond. <i>Journal of Magnetic Resonance</i> , 2016, 262, 15-19.	2.1	18
12	Identification of shallow Al donors in ZnO. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 1532-1537.	1.5	16
13	Electron Paramagnetic Resonance and Electron Nuclear Double Resonance Study of the Paramagnetic Complexes of Anthraquinone on the Surface of $\gamma$ -Al <sub>2</sub> O <sub>3</sub> . <i>Journal of Physical Chemistry C</i> , 2014, 118, 14998-15003.	3.1	14
14	Study of Organic Self-Assembled Nanosystems by Means of High-Frequency ESR/ENDOR: The Case of Oil Asphaltenes. <i>Russian Journal of General Chemistry</i> , 2018, 88, 2374-2380.	0.8	14
15	Radiation-Induced Stable Radicals in Calcium Phosphates: Results of Multifrequency EPR, EDNMR, ESEM, and ENDOR Studies. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 7727.	2.5	14
16	Identification of Fe <sup>3+</sup> -Li <sup>+</sup> complexes in ZnO by means of high-frequency EPR/ENDOR spectroscopy. <i>Journal of Magnetic Resonance</i> , 2013, 237, 110-114.	2.1	13
17	Poly( $\mu$ -Caprolactone) Nerve Conduit and Local Delivery of vegf and fgf2 Genes Stimulate Neuroregeneration. <i>Bulletin of Experimental Biology and Medicine</i> , 2014, 157, 155-158.	0.8	13
18	Study of the effects of hydroxyapatite nanocrystal codoping by pulsed electron paramagnetic resonance methods. <i>Physics of the Solid State</i> , 2016, 58, 469-474.	0.6	13

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19	Stationary and high-frequency pulsed electron paramagnetic resonance of a calcified atherosclerotic plaque. JETP Letters, 2008, 88, 69-73.	1.4	12
20	High-frequency EPR study of crude oils. Journal of Physics: Conference Series, 2013, 478, 012003.	0.4	11
21	Identification of the La <sub>6</sub> F <sub>37</sub> cubooctahedral clusters in mixed crystals (BaF <sub>2</sub> ) <sub>1-x</sub> (LaF <sub>3</sub> ) <sub>x</sub> by the electron paramagnetic resonance method. Physics of the Solid State, 2007, 49, 2086-2090.	0.6	10
22	EPR of Radiation-Induced Nitrogen Centers in Hydroxyapatite: New Approaches to the Study of Electron-Nuclear Interactions. Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya, 2020, 46, 729-737.	1.0	10
23	The improved textural properties, thermal stability, and cytocompatibility of mesoporous hydroxyapatite by Mg <sup>2+</sup> doping. Materials Chemistry and Physics, 2022, 289, 126461.	4.0	10
24	Room Temperature High-Field Spin Dynamics of NV Defects in Sintered Diamonds. Applied Magnetic Resonance, 2013, 44, 1235-1244.	1.2	9
25	Shallow Donors and Deep-Level Color Centers in Bulk AlN Crystals: EPR, ENDOR, ODMR and Optical Studies. Applied Magnetic Resonance, 2013, 44, 1139-1165.	1.2	7
26	Defects in Nanodiamonds: Application of High-Frequency cw and Pulse EPR, ODMR. Applied Magnetic Resonance, 2014, 45, 1035-1049.	1.2	7
27	Investigation of atherosclerotic plaque by high-frequency EPR. Journal of Physics: Conference Series, 2013, 478, 012002.	0.4	6
28	Pulsed electron-nuclear double resonance diagnostics of Ce <sup>3+</sup> emitters in scintillating garnets. Physica Status Solidi (B): Basic Research, 2017, 254, 1600631.	1.5	6
29	Nuclear Spin-Kinetics of <sup>3</sup> He in Carbonizates with Various Porosity. Journal of Low Temperature Physics, 2007, 148, 815-819.	1.4	5
30	Effect of quantum confinement and influence of extra charge on the electric field gradient in ZnO. JETP Letters, 2012, 95, 471-475.	1.4	5
31	A study of hydroxyapatite nanocrystals by the multifrequency EPR and ENDOR spectroscopy methods. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2014, 116, 715-720.	0.6	5
32	Hyperfine and nuclear quadrupole splitting of the ground state in NV <sup>0</sup> center in diamond. Physical Review B, 2021, 103, .	3.2	5
33	Manganese in atherogenesis: Detection, origin, and a role. Biochemistry (Moscow) Supplement Series B: Biomedical Chemistry, 2011, 5, 158-162.	0.4	4
34	Rotational dynamics of copper(II) amino acid complexes by EPR and NMR relaxation methods. Journal of Physics: Conference Series, 2012, 394, 012030.	0.4	4
35	Sandwich double-decker Er(III) and Yb(III) complexes containing naphthalocyanine moiety: synthesis and investigation of the effect of a paramagnetic metal center. Dalton Transactions, 2019, 48, 13413-13422.	3.3	4
36	Influence of the Chemical Modification of the Nanodiamond Surface on Electron Paramagnetic Resonance/Electron-Nuclear Double Resonance Spectra of Intrinsic Nitrogen Defects. Journal of Physical Chemistry C, 2019, 123, 22384-22389.	3.1	4

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37	Electron paramagnetic resonance of radiation-induced paramagnetic centers in an aerogel. JETP Letters, 2008, 88, 244-248.	1.4	3
38	EPR and ODMR defect control in AlN bulk crystals. Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 449-452.	0.8	3
39	Perspective of zero-field ODMR to study nano-biological systems. Journal of Physics: Conference Series, 2013, 478, 012001.	0.4	3
40	EPR study of ordered Al <sub>2</sub> O <sub>3</sub> -based aerogel. JETP Letters, 2015, 102, 628-631.	1.4	3
41	Aluminum and gallium nuclei as microscopic probes for pulsed electron-nuclear double resonance diagnostics of electric-field gradient and spin density in garnet ceramics doped with paramagnetic ions. AIP Advances, 2018, 8, 035001.	1.3	3
42	Effect of phase transitions of helium-3 in pores of wood carbonizate on the spin kinetics of <sup>3</sup> He nuclei. JETP Letters, 2006, 84, 41-44.	1.4	2
43	Detection and Identification of Nitrogen Centers in Nanodiamond: EPR Studies. Fullerenes Nanotubes and Carbon Nanostructures, 2010, 19, 44-51.	2.1	2
44	Spin Relaxation Times of Donor Centers Associated with Lithium in Monoisotopic <sup>28</sup> Si. Solid State Phenomena, 0, 242, 322-326.	0.3	2
45	Nuclear spin-lattice relaxation in finely dispersed carbonizate powders. JETP Letters, 2004, 79, 641-645.	1.4	1
46	Multifrequency EPR and DENR of polyacetylene composite. Russian Journal of Inorganic Chemistry, 2013, 58, 183-185.	1.3	1
47	Plasma-Sprayed Manganese-Containing Tricalcium Phosphate Coatings on Titanium. Inorganic Materials, 2021, 57, 967-972.	0.8	1
48	Electron paramagnetic resonance of phytofulgurite. Doklady Earth Sciences, 2011, 437, 424-427.	0.7	0
49	Probing Wave Functions of Electrically Active Shallow Level Defects by Means of High-Frequency Pulsed ENDOR in Wide Bandgap Materials: SiC, AlN, ZnO, and AgCl. Applied Magnetic Resonance, 0, , 1.	1.2	0