

Marat Gafurov

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109
papers

1,321
citations

22
h-index

30
g-index

118
ext. papers

1,609
ext. citations

2.3
avg, IF

4.43
L-index

#	Paper	IF	Citations
109	Liquid state DNP using a 260 GHz high power gyrotron. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 5786-90	3.6	85
108	High-field dynamic nuclear polarization in aqueous solutions. <i>Journal of the American Chemical Society</i> , 2009 , 131, 6090-2	16.4	77
107	High-Field DNP Spectrometer for Liquids. <i>Applied Magnetic Resonance</i> , 2008 , 34, 289-299	0.8	49
106	Dynamic nuclear polarization of water by a nitroxide radical: rigorous treatment of the electron spin saturation and comparison with experiments at 9.2 Tesla. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 6638-53	3.6	40
105	Toward the Asphaltene Structure by Electron Paramagnetic Resonance Relaxation Studies at High Fields (3.4 T). <i>Energy & Fuels</i> , 2016 , 30, 6942-6946	4.1	37
104	First DNP Results from a Liquid Water-TEMPO Sample at 400 MHz and 260 GHz. <i>Applied Magnetic Resonance</i> , 2008 , 34, 399-407	0.8	37
103	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 & Fuels</i> , 2014 , 28, 6683-6687	4.1	36
102	EPR study of spectra transformations of the intrinsic vanadyl-porphyrin complexes in heavy crude oils with temperature to probe the asphaltenes' aggregation. <i>Journal of Petroleum Science and Engineering</i> , 2018 , 166, 363-368	4.4	32
101	Combination of EPR measurements and DFT calculations to study nitrate impurities in the carbonated nanohydroxyapatite. <i>Journal of Physical Chemistry A</i> , 2014 , 118, 1519-26	2.8	32
100	In Situ Identification of Various Structural Features of Vanadyl Porphyrins in Crude Oil by High-Field (3.4 T) Electron Nuclear Double Resonance Spectroscopy Combined with Density Functional Theory Calculations. <i>Energy & Fuels</i> , 2017 , 31, 1243-1249	4.1	31
99	Quantitative Analysis of Lewis Acid Centers of γ -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	3.8	29
98	EPR Characterization of a Rigid Bis-TEMPO Bis-Ketal for Dynamic Nuclear Polarization. <i>Applied Magnetic Resonance</i> , 2010 , 37, 505-514	0.8	29
97	Pb ³⁺ radiation defects in Ca ₉ Pb(PO ₄) ₆ (OH) ₂ hydroxyapatite nanoparticles studied by high-field (W-band) EPR and ENDOR. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 2246-9	3.6	28
96	Tricalcium Phosphate Ceramics Doped with Silver, Copper, Zinc, and Iron (III) Ions in Concentrations of Less Than 0.5 wt.% for Bone Tissue Regeneration. <i>BioNanoScience</i> , 2017 , 7, 434-438	3.4	27
95	Mn-Catalyzed Oxidation of Heavy Oil in Porous Media: Kinetics and Some Aspects of the Mechanism. <i>Energy & Fuels</i> , 2016 , 30, 7731-7737	4.1	27
94	Proton Radical Interaction in Crude Oil: A Combined NMR and EPR Study. <i>Energy & Fuels</i> , 2018 , 32, 11261-11268	4.1	27
93	The Interplay of manganese and nitrate in hydroxyapatite nanoparticles as revealed by pulsed EPR and DFT. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 20331-7	3.6	26

92	Stomach Cancer: Interconnection between the Redox State, Activity of MMP-2, MMP-9 and Stage of Tumor Growth. <i>Cancer Microenvironment</i> , 2016 , 9, 27-32	6.1	26
91	Temperature Dependence of the Proton Overhauser DNP Enhancements on Aqueous Solutions of Fremy's Salt Measured in a Magnetic Field of 9.2 T. <i>Applied Magnetic Resonance</i> , 2012 , 43, 119-128	0.8	26
90	The Low-Field Pulsed Mode Dynamic Nuclear Polarization in the Pentavalent Chromium Complex and Crude Oils. <i>Applied Magnetic Resonance</i> , 2014 , 45, 1275-1287	0.8	25
89	Conventional, pulsed and high-field electron paramagnetic resonance for studying metal impurities in calcium phosphates of biogenic and synthetic origins. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 470, 109-117	2.8	25
88	Coherence times and Rabi oscillations in CaWO ₄ :Cr(5+) crystal. <i>Journal of Magnetic Resonance</i> , 2011 , 209, 61-8	3	24
87	Nitrogen-containing species in the structure of the synthesized nano-hydroxyapatite. <i>JETP Letters</i> , 2014 , 99, 196-203	1.2	22
86	A DFT, X- and W-band EPR and ENDOR Study of Nitrogen-Centered Species in (Nano)Hydroxyapatite. <i>Applied Magnetic Resonance</i> , 2014 , 45, 1189-1203	0.8	22
85	Coherent spin manipulations in Yb ³⁺ :CaWO ₄ at X- and W-band EPR frequencies. <i>Physical Review B</i> , 2009 , 79,	3.3	22
84	Native Vanadyl Complexes in Crude Oil as Polarizing Agents for In Situ Proton Dynamic Nuclear Polarization. <i>Energy & Fuels</i> , 2019 , 33, 10923-10932	4.1	21
83	EPR study of some rare-earth ions (Dy ³⁺ , Tb ³⁺ , and Nd ³⁺) in YBa ₂ Cu ₃ O ₆ -compound. <i>Journal of Magnetic Resonance</i> , 2003 , 161, 210-4	3	19
82	Changes in mitochondrial functioning with electromagnetic radiation of ultra high frequency as revealed by electron paramagnetic resonance methods. <i>International Journal of Radiation Biology</i> , 2014 , 90, 357-62	2.9	18
81	Pulsed NMR spectrometer with dynamic nuclear polarization for weak magnetic fields. <i>Magnetic Resonance in Solids</i> , 2019 , 21,	1.6	18
80	Electron spin-lattice relaxation of Er ³⁺ -ions in Y _{0.99} Er _{0.01} Ba ₂ Cu ₃ O _x . <i>Physica C: Superconductivity and Its Applications</i> , 1998 , 307, 61-66	1.3	17
79	EPR as a complementary tool for the analysis of low-temperature oxidation reactions of crude oils. <i>Journal of Petroleum Science and Engineering</i> , 2018 , 169, 673-682	4.4	16
78	Influence of Al on the Structure and in Vitro Behavior of Hydroxyapatite Nanopowders. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 9143-9154	3.4	15
77	Debye temperature in YBa ₂ Cu ₃ O _x as measured from the electron spin-lattice relaxation of doped Yb ³⁺ ions. <i>Physica C: Superconductivity and Its Applications</i> , 2001 , 349, 30-34	1.3	15
76	Paramagnetic Manganese in the Atherosclerotic Plaque of Carotid Arteries. <i>BioMed Research International</i> , 2016 , 2016, 3706280	3	15
75	Coherent spin dynamics in a gadolinium-doped CaWO ₄ crystal. <i>Physical Review B</i> , 2017 , 95,	3.3	14

74	Sic Parvis Magna: Manganese-Substituted Tricalcium Phosphate and Its Biophysical Properties. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 6632-6644	5.5	13
73	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	0.8	13
72	Electron Paramagnetic Resonance and Electron Nuclear Double Resonance Study of the Paramagnetic Complexes of Anthraquinone on the Surface of Al_2O_3 . <i>Journal of Physical Chemistry C</i> , 2014 , 118, 14998-15003	3.8	12
71	Platform-to-platform sample transfer, distribution, dilution, and dosing via electrothermal vaporization and electrostatic deposition. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2004 , 59, 737-748	3.1	11
70	Mesoporous Iron(III)-Doped Hydroxyapatite Nanopowders Obtained via Iron Oxalate. <i>Nanomaterials</i> , 2021 , 11,	5.4	11
69	Deep Insights into Heavy Oil Upgrading Using Supercritical Water by a Comprehensive Analysis of GC, GC-MS, NMR, and SEM-EDX with the Aid of EPR as a Complementary Technical Analysis. <i>ACS Omega</i> , 2021 , 6, 135-147	3.9	10
68	In Vitro Properties of Manganese-Substituted Tricalcium Phosphate Coatings for Titanium Biomedical Implants Deposited by Arc Plasma. <i>Materials</i> , 2020 , 13,	3.5	10
67	Qualitative and Quantitative Analysis of Heavy Crude Oil Samples and Their SARA Fractions with ^{13}C Nuclear Magnetic Resonance. <i>Processes</i> , 2020 , 8, 995	2.9	10
66	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	0.7	10
65	Electron paramagnetic resonance study of tumor affected bone marrow. <i>Cancer Microenvironment</i> , 2013 , 6, 273-6	6.1	9
64	EPR of Yb^{3+} ions in $\text{Ba}_{1-x}\text{La}_x\text{F}_{2+x}$ mixed crystals. <i>Applied Magnetic Resonance</i> , 2005 , 28, 41-53	0.8	9
63	Copper-substituted tricalcium phosphates. <i>Doklady Chemistry</i> , 2016 , 471, 384-387	0.8	9
62	The Role of Nanodispersed Catalysts in Microwave Application during the Development of Unconventional Hydrocarbon Reserves: A Review of Potential Applications. <i>Processes</i> , 2021 , 9, 420	2.9	9
61	Coherent manipulation of dipolar coupled spins in an anisotropic environment. <i>Physical Review B</i> , 2014 , 90,	3.3	8
60	Temperature dependence of the EPR linewidth of Yb^{3+} ions in $\text{Y}_{0.99}\text{Yb}_{0.01}\text{Ba}_2\text{Cu}_3\text{O}_x$ (6×10^7) compounds: evidence for an anomaly near the superconducting transition. <i>Superconductor Science and Technology</i> , 2005 , 18, 352-355	3.1	8
59	Superhyperfine structure of the ESR spectra of Gd^{3+} impurity ions in LiYF_4 double fluoride. <i>Physics of the Solid State</i> , 2017 , 59, 564-568	0.8	7
58	Superoxide- and NO-Dependent Mechanisms of the Reprogramming of Bone Marrow Cells by Tumor Cells. <i>Applied Magnetic Resonance</i> , 2014 , 45, 1261-1273	0.8	7
57	An electrothermal vaporization unit with axially focusing convection upstream and influence of modifiers. Part I: Experimental. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2007 , 62, 231-241	3.1	7

56	Electron Paramagnetic Resonance in the Experimental Oncology: Implementation Examples of the Conventional Approaches. <i>BioNanoScience</i> , 2016 , 6, 431-436	3.4	7
55	High-Field (3.4 T) ENDOR Investigation of Asphaltenes in Native Oil and Vanadyl Complexes by Asphaltene Adsorption on Alumina Surface. <i>Geofluids</i> , 2019 , 2019, 1-9	1.5	6
54	Study of radiation-induced stable radicals in synthetic octacalcium phosphate by pulsed EPR. <i>Magnetic Resonance in Solids</i> , 2019 , 21,	1.6	6
53	Colorectal Cancer and Mitochondrial Dysfunctions of the Adjunct Adipose Tissues: A Case Study. <i>BioMed Research International</i> , 2018 , 2018, 2169036	3	6
52	Rectal Cancer: Redox State of Venous Blood and Tissues of Blood Vessels from Electron Paramagnetic Resonance and Its Correlation with the Five-Year Survival. <i>BioMed Research International</i> , 2018 , 2018, 4848652	3	6
51	W-Band ENDOR of Light-Induced PPerAcr Anion Radicals in Double-Crystalline Donor-Bridge-Acceptor P3HT-b-PPerAcr Block Copolymer in Frozen Solution: Experimental and DFT Study. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 22829-22837	3.8	6
50	Phonon Spectrum in Hydroxyapatite: Calculations and EPR Study at Low Temperatures. <i>Journal of Low Temperature Physics</i> , 2016 , 185, 627-632	1.3	5
49	A study of hydroxyapatite nanocrystals by the multifrequency EPR and ENDOR spectroscopy methods. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2014 , 116, 715-720	0.7	5
48	Intensity of the EPR spectrum in quenched samples of Yba2Cu3Ox compounds. <i>Physics of the Solid State</i> , 1997 , 39, 374-377	0.8	5
47	Iron-Doped Mesoporous Powders of Hydroxyapatite as Molybdenum-Impregnated Catalysts for Deep Oxidative Desulfurization of Model Fuel: Synthesis and Experimental and Theoretical Studies. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 11604-11619	3.8	5
46	Radiation-Induced Stable Radicals in Calcium Phosphates: Results of Multifrequency EPR, EDNMR, ESEEM, and ENDOR Studies. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 7727	2.6	5
45	Superhyperfine structure of the EPR spectra of impurity ions in the LiYF4 : Nd3+ system doped by 143Nd isotopes. <i>Physics of the Solid State</i> , 2015 , 57, 2400-2403	0.8	4
44	EPR and double resonances in study of diamonds and nanodiamonds. <i>Experimental Methods in the Physical Sciences</i> , 2019 , 50, 83-113	0.4	4
43	Metallo-Supramolecular Coordination Polymers Based on Amidopyridine Derivatives of Pillar[5]arene and Cu(II) and Pd(II) Cations: Synthesis and Recognition of Nitroaromatic Compounds. <i>Langmuir</i> , 2021 , 37, 2942-2953	4	4
42	Low-temperature thermal decomposition of heavy petroleum distillates: interconnection between the electrical properties and concentration of paramagnetic centres. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018 , 155, 012007	0.3	4
41	Effect of the Beryllium Acceptor Impurity upon the Optical Properties of Single-Crystal AlN. <i>Semiconductors</i> , 2020 , 54, 278-281	0.7	3
40	Connection Between the Carotid Plaque Instability and Paramagnetic Properties of the Intrinsic Mn2+ Ions. <i>BioNanoScience</i> , 2016 , 6, 558-560	3.4	3
39	260 GHz quasioptical setup for EPR and DNP experiments on the 9.2 Tesla DNP/NMR/EPR spectrometer 2010 ,		3

38	Inhomogeneity of the intrinsic magnetic field in superconducting YBa ₂ Cu ₃ O _x compounds as revealed by a rare-earth EPR probe. <i>Superconductor Science and Technology</i> , 2005 , 18, 1183-1189	3.1	3
37	Spectra and relaxation of electronic excitations in CsCdBr ₃ :Yb ³⁺ and CsCdBr ₃ :Nd ³⁺ monocrystals 2002 ,		3
36	Probing the surface of synthetic opals with the vanadyl containing crude oil by using EPR and ENDOR techniques. <i>Magnetic Resonance in Solids</i> , 2019 , 21,	1.6	3
35	Study of Electron-Nuclear Interactions in Doped Calcium Phosphates by Various Pulsed EPR Spectroscopy Techniques. <i>ACS Omega</i> , 2021 , 6, 25338-25349	3.9	3
34	Influence of the Chemical Modification of the Nanodiamond Surface on Electron Paramagnetic Resonance/Electron-Nuclear Double Resonance Spectra of Intrinsic Nitrogen Defects. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 22384-22389	3.8	2
33	Structural dynamics of a spinlabeled ribosome elongation factor P (EF-P) from <i>Staphylococcus aureus</i> by EPR spectroscopy. <i>SN Applied Sciences</i> , 2019 , 1, 1	1.8	2
32	Superhyperfine Structure of the EPR Spectra of Nd ³⁺ Impurity Ions in Fluorite CaF ₂ . <i>Physics of the Solid State</i> , 2018 , 60, 912-915	0.8	2
31	Radiation induced paramagnetic radicals in synthetic octacalcium phosphate. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018 , 155, 012018	0.3	2
30	EPR study of clusters of rare-earth ions in mixed fluoride crystals. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2014 , 116, 773-776	0.7	2
29	Investigation of atherosclerotic plaque by high-frequency EPR. <i>Journal of Physics: Conference Series</i> , 2013 , 478, 012002	0.3	2
28	Perspective of zero-field ODMR to study nano-biological systems. <i>Journal of Physics: Conference Series</i> , 2013 , 478, 012001	0.3	2
27	EPR of Radiation-Induced Nitrogen Centers in Hydroxyapatite: New Approaches to the Study of Electron-Nuclear Interactions. <i>Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya</i> , 2020 , 46, 729-737	1.6	2
26	Determination of pores properties in rocks by means of helium-3 NMR: A case study of oil-bearing arkosic conglomerate from North belt of crude oil, Republic of Cuba. <i>Journal of Petroleum Science and Engineering</i> , 2022 , 210, 110010	4.4	2
25	Redox state of adipose tissue for patients with gastric cancer and its connection with the body mass index and distance from the tumor. <i>Obesity Research and Clinical Practice</i> , 2020 , 14, 34-38	5.4	2
24	Molecular Dynamics and Proton Hyperpolarization via Synthetic and Crude Oil Porphyrin Complexes in Solid and Solution States. <i>Langmuir</i> , 2021 , 37, 6783-6791	4	2
23	Criteria for Carotid Atherosclerotic Plaque Instability. <i>Annals of Vascular Surgery</i> , 2021 , 72, 340-349	1.7	2
22	Study of the oxidized and non-oxidized bitumen modified with additive "Adgezolin" by using electron paramagnetic resonance. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018 , 155, 012004	0.3	2
21	Preliminary estimating the contemporary sedimentation trend in dry valley bottoms of first-order catchments of different landscape zones of the Russian Plain using the ¹³⁷ Cs as a chronomarker. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018 , 107, 012022	0.3	2

20	Redox Status of a Metastatic Microenvironment in the Liver of Patients with Colorectal Cancer from EPR. <i>Applied Magnetic Resonance</i> , 2019 , 50, 391-402	0.8	1
19	W-band EPR of vanadyl complexes aggregates on the surface of Al ₂ O ₃ . <i>IOP Conference Series: Earth and Environmental Science</i> , 2018 , 155, 012005	0.3	1
18	Conventional electron paramagnetic resonance of Mn ²⁺ in synthetic hydroxyapatite at different concentrations of the doped manganese. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018 , 155, 012006	0.3	1
17	High-Field, Pulsed, and Double Resonance Studies of Crude Oils and their Derivatives 2017 , 101-124		1
16	Study of the Structures of the Tetragonal Paramagnetic Centers in the Mixed Fluorite Crystals with Rare-Earth Ions by EPR. <i>Applied Magnetic Resonance</i> , 2014 , 45, 1147-1156	0.8	1
15	Electron spin resonance with $g_{eff} \approx 2$ in YBa ₂ Cu ₃ O _{6.35} . Model of chain copper-oxygen fragments. <i>Journal of Experimental and Theoretical Physics</i> , 2000 , 90, 363-369	1	1
14	Coherent control of electron-nuclear states of rare-earth ions in crystals using radio-frequency and microwave radiation. <i>EPJ Web of Conferences</i> , 2018 , 195, 06003	0.3	1
13	Studying metal impurities (Mn ²⁺ , Cu ²⁺ , Fe ³⁺) in calcium phosphates by electron paramagnetic resonance. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018 , 155, 012002	0.3	1
12	Changes in Heavy Oil Saturates and Aromatics in the Presence of Microwave Radiation and Iron-Based Nanoparticles. <i>Catalysts</i> , 2022 , 12, 514	4	1
11	Multifrequency (9 and 95 GHz) EPR study of stable radicals in asphaltenes fractions of oils and bitumen. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019 , 282, 012016	0.3	0
10	Synthesis and study of the synthetic hydroxyapatite doped with aluminum. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018 , 155, 012017	0.3	0
9	Incorporation of Iron(II) and (III) in Hydroxyapatite: Theoretical Study. <i>Crystals</i> , 2021 , 11, 1219	2.3	0
8	Application of pulsed and high-frequency electron paramagnetic resonance techniques to study petroleum disperse systems. <i>Georesursy</i> , 2020 , 22, 2-14	0.9	0
7	Using DFT to Calculate the Parameters of the Crystal Field in Mn ²⁺ Doped Hydroxyapatite Crystals. <i>Crystals</i> , 2021 , 11, 1050	2.3	0
6	Overhauser-driven dynamic nuclear polarization for petroleum systems: literature survey and comparing with experiments. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019 , 282, 012018	0.3	0.3
5	Lattice distortions in hydroxyapatites with size as follows from the electronic relaxation time measurements. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019 , 282, 012019	0.3	
4	Nanosized iron-substituted hydroxyapatites. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020 , 747, 012066	0.4	
3	Distribution of vanadyl complexes and free radicals in asphaltenes fractions from electron paramagnetic resonance. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019 , 282, 012008	0.3	

- 2 EPR Detection of DNA Interaction with 3-Carboxy-proxyl-Labelled Recombinant Human Histone H1.3. *BioNanoScience*, **2017**, 7, 109-111 3-4
- 1 Mims electron-nuclear double resonance in LiYF₄:Ce³⁺ crystal. *IOP Conference Series: Earth and Environmental Science*, **2018**, 155, 012003 0-3