

Sushil K Misra

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8392975/publications.pdf>

Version: 2024-02-01

53
papers

881
citations

623734

14
h-index

526287

27
g-index

86
all docs

86
docs citations

86
times ranked

862
citing authors

#	ARTICLE	IF	CITATIONS
1	Two-Pulse EPR COSY (Correlation Spectroscopy) Sequence: Feasibility for Distance Measurements in Biological Systems. Applied Magnetic Resonance, 2022, 53, 343.	1.2	0
2	Calculation of pulsed EPR DEER signal for two coupled Gd ³⁺ ions by dipolar interaction using rotating frames. Physica B: Condensed Matter, 2022, , 413903.	2.7	1
3	Estimation of distance-distribution probabilities from pulsed electron paramagnetic resonance (EPR) data of two dipolar interaction coupled nitroxide spin labels using doubly rotating frames and least-squares fitting. European Physical Journal D, 2022, 76, .	1.3	0
4	EPR and magnetization studies of the manganites La _{0.7-x} Eu _x Sr _{0.3} MnO ₃ (x=0.4, 0.5, 0.6, 0.7) and La _{0.3} Nd _{0.4} Sr _{0.3} MnO ₃ at different temperatures: Conductivity due to hopping of small polarons. Journal of Magnetism and Magnetic Materials, 2021, 519, 167450.	2.3	16
5	Relaxation in Pulsed EPR: Thermal Fluctuation of Spin-Hamiltonian Parameters of an Electron-Nuclear Spin-Coupled System in a Malonic Acid Single Crystal in a Strong Harmonic-Oscillator Restoring Potential. Applied Magnetic Resonance, 2021, 52, 247-261.	1.2	2
6	Spin relaxation in six-pulse double-quantum coherence (DQC) signal: stretched exponential approach for a polycrystalline average. European Physical Journal Plus, 2021, 136, 1.	2.6	0
7	Calculation of DEER spectrum by the use of doubly rotating frames: Three-pulse and four-pulse nitroxide biradical DEER signals. Physica B: Condensed Matter, 2021, , 413511.	2.7	2
8	A Rigorous Calculation of Pulsed EPR SECSY and Echo-ELDOR Signals: Inclusion of Static Hamiltonian and Relaxation during Pulses. Journal of Applied and Theoretical Physics Research, 2019, 3, 9-43.	0.2	3
9	EPR and Magnetization Studies of Polymer-Derived Fe-Doped SiCN Nanoceramics Annealed at Various Temperatures: Blocking Temperature, Superparamagnetism and Size Distributions. Applied Magnetic Resonance, 2018, 49, 1397-1415.	1.2	2
10	A Review of EPR Studies on Magnetization of Nanoparticles of Dilute Magnetic Semiconductors Doped by Transition-Metal Ions. Applied Magnetic Resonance, 2015, 46, 693-707.	1.2	11
11	Anisotropic magnetic field observed at 300ÅK in citrate-coated iron oxide nanoparticles: effect of counterions. Journal of Nanoparticle Research, 2015, 17, 1.	1.9	4
12	Spin-Hamiltonian Parameters (SHP) of a Gd ³⁺ -Doped Y(BrO ₃) ₃ ·9H ₂ O Single Crystal as Studied by Electron Paramagnetic Resonance at 110 and 300ÅK: a Comparison with SHPs in Other R(BrO ₃) ₃ ·9H ₂ O [(R=Pr, Nd, Sm, Eu, Dy)] Crystals. Applied Magnetic Resonance, 2015, 46, 1069-1077.	1.2	0
13	EPR Spectroscopy and the Electronic Structure of the Oxygen-Evolving Complex of Photosystem II. Applied Magnetic Resonance, 2013, 44, 691-720.	1.2	24
14	A Low Temperature (10ÅK) High-Frequency (208ÅGHz) EPR Study of the Non-Kramers Ion Mn ³⁺ in a MnMo ₆ Se ₈ Single Crystal. Applied Magnetic Resonance, 2013, 44, 401-410.	1.2	2
15	Theory of EPR lineshape in samples concentrated in paramagnetic spins: Effect of enhanced internal magnetic field on high-field high-frequency (HFHF) EPR lineshape. Journal of Magnetic Resonance, 2012, 219, 53-60.	2.1	9
16	EPR Studies of Nanomaterials. , 2011, , 825-843.		8
17	First Principles Approach to Spin-Hamiltonian Parameters. , 2011, , 295-326.		4
18	Determination of Large Zero-Field Splitting. , 2011, , 589-597.		2

#	ARTICLE	IF	CITATIONS
19	Determination of Non-Coincident Anisotropic g , A , D , and P Tensors: Low-Symmetry Considerations. , 2011, , 599-618.		0
20	EPR/FMR, FTIR, X-Ray and Raman Investigations of Fe-Doped SiCN Ceramics. Applied Magnetic Resonance, 2010, 38, 385-402.	1.2	19
21	EPR/FMR Investigation of Mn-Doped SiCN Ceramics. Applied Magnetic Resonance, 2010, 39, 347-356.	1.2	10
22	A variable temperature EPR study of the manganites $(La_{1/3}Sm_{2/3})_{2/3}Sr_xBa_{0.33-x}MnO_3$ ($x=0.0, 0.1, 0.2$). Tj ETQq0 0 0 rgBT /Overlock Materials, 2010, 322, 2902-2907.	2.3	35
23	A multifrequency EPR study of Fe ²⁺ and Mn ²⁺ ions in a ZnSiF ₆ ·6H ₂ O single crystal at liquid-helium temperatures. Journal of Magnetic Resonance, 2010, 205, 14-22.	2.1	25
24	Calculation of Double-Quantum-Coherence Two-dimensional Spectra: Distance Measurements and Orientational Correlations. Applied Magnetic Resonance, 2009, 36, 237-258.	1.2	27
25	A 236 GHz Fe ³⁺ EPR Study of Nanoparticles of the Ferromagnetic Room-Temperature Semiconductor Sn _{1-x} Fe _x O ₂ ($x=0.005$). Applied Magnetic Resonance, 2009, 36, 291-295.	1.2	9
26	Cr ³⁺ + electron paramagnetic resonance study of Sn _{1-x} Cr _x O ₂ ($0.00 \leq x \leq 0.10$). Journal of Applied Physics, 2009, 105, .	2.5	23
27	Simulation of slow-motion CW EPR spectrum using stochastic Liouville equation for an electron spin coupled to two nuclei with arbitrary spins: Matrix elements of the Liouville superoperator. Journal of Magnetic Resonance, 2007, 189, 59-77.	2.1	11
28	Exchange-mediated spin-lattice relaxation of Fe ³⁺ ions in borate glasses. Journal of Magnetic Resonance, 2007, 185, 38-41.	2.1	1
29	Synthesis and characterization of polyureasilazane derived SiCN ceramics. Journal of Applied Physics, 2006, 99, 113907.	2.5	37
30	A variable temperature EPR study of Mn ²⁺ -doped NH ₄ ClO ₄ single crystal at 170GHz: Zero-field splitting parameter and its absolute sign. Journal of Magnetic Resonance, 2005, 174, 265-269.	2.1	3
31	Spin-lattice relaxation of Fe ³⁺ ions in commercial silicate glasses: Effect of exchange interaction. Physical Review B, 2004, 69, .	3.2	5
32	Study of Hyperfine and Fine Interactions of Nd ³⁺ and Ce ³⁺ ions in LaNbO ₄ and PrNbO ₄ Crystals by X-Band EPR at Liquid-Helium Temperatures. Journal of Physical Chemistry B, 2004, 108, 9397-9402.	2.6	17
33	Variable-frequency EPR study of Mn ²⁺ -doped NH ₄ ClO ₄ single crystal at 9.6, 36, and 249.9GHz: structural phase transition. Journal of Magnetic Resonance, 2003, 160, 131-138.	2.1	14
34	Variable temperature X-band EPR of Gd ³⁺ in LaNbO ₄ and PrNbO ₄ crystals: Low-symmetry effect, influence of host and impurity paramagnetic ions on linewidth, and onset of antiferromagnetism. Physical Review B, 2003, 67, .	3.2	6
35	Low-temperature ordered states of rare-earth magnetic dipoles in R ₂ Ba ₄ Cu ₇ O ₁₅ as effected by dipole-dipole and exchange interactions: Extension of generalized Luttinger-Tisza method. Physical Review B, 2003, 67, .	3.2	0
36	SPIN-HAMILTONIAN FORMALISMS IN ELECTRON MAGNETIC RESONANCE (EMR) AND RELATED SPECTROSCOPIES. Applied Spectroscopy Reviews, 2001, 36, 11-63.	6.7	224

#	ARTICLE	IF	CITATIONS
37	Evidence for Spin-Fraction Relaxation in the Polymer Resin P4VP Doped with Kramers Ions Co^{2+} , Nd^{3+} , and Yb^{3+} . <i>Physical Review Letters</i> , 1999, 83, 1866-1869.	7.8	7
38	An EPR Study of Some Highly Distorted Tetrahedral Manganese(II) Complexes at High Magnetic Fields. <i>Inorganic Chemistry</i> , 1999, 38, 5384-5388.	4.0	54
39	EPR of a VO^{2+} -Doped $\text{Fe}(\text{NH}_4)_2(\text{SO}_4)_2 \cdot 6\text{H}_2\text{O}$ Single Crystal. VO^{2+} ; Fe^{2+} Exchange Interaction and Spin-Lattice Relaxation Time of Host Fe^{2+} Ions. <i>Physica Status Solidi (B): Basic Research</i> , 1990, 162, 585-595.	1.5	11
40	EPR and Optical Absorption Studies of Cu^{2+} -Doped $\text{Mg}(\text{CH}_3\text{COO})_2 \cdot 4\text{H}_2\text{O}$ Single Crystal. <i>Physica Status Solidi (B): Basic Research</i> , 1989, 154, 259-271.	1.5	26
41	Electron paramagnetic resonance study of the phase transition in Cu^{2+} -doped $\text{CaCd}(\text{CH}_3\text{COO})_4 \cdot 6\text{H}_2\text{O}$. <i>Journal of Chemical Physics</i> , 1986, 84, 2514-2519.	3.0	8
42	Low-temperature X-band EPR study of Mn^{2+} , Cu^{2+} , and Co^{2+} -doped NH_4I single crystals. <i>Journal of Chemical Physics</i> , 1985, 82, 5307-5309.	3.0	8
43	Host-lattice systematics of EPR spectra of Mn^{2+} -doped isomorphous metal hexakisantipyrine perchlorate and EPR of Cu^{2+} in copper pentakisantipyrine perchlorate. <i>Journal of Chemical Physics</i> , 1985, 83, 1490-1495.	3.0	7
44	Electron spin resonance of Gd^{3+} in triacetate tetrahydrates of Sm, Nd, Er, Y, Yb, and Dy. <i>Journal of Chemical Physics</i> , 1983, 78, 5369-5372.	3.0	9
45	Electron spin resonance of Gd^{3+} in trifluorides of La, Ce, Pr, and Nd. <i>Journal of Chemical Physics</i> , 1981, 74, 922-927.	3.0	33
46	EPR of Mn^{2+} in $\text{Ni}(\text{CH}_3\text{COO})_2 \cdot 4\text{H}_2\text{O}$ and $\text{K}_2\text{Ni}(\text{SO}_4)_2 \cdot 6\text{H}_2\text{O}$. <i>Materials Research Society Symposia Proceedings</i> , 1980, 3, 515.	0.1	0
47	Computation of crystal field parameters using lattice sums as evaluated by the Ewald method. <i>Journal of Chemical Physics</i> , 1979, 71, 1033-1035.	3.0	2
48	Systematics of EPR spectra of Gd^{3+} in rare-earth trinitrate hexahydrate hosts. <i>Journal of Chemical Physics</i> , 1978, 69, 3093-3099.	3.0	9
49	Electron paramagnetic resonance of Cr^{3+} in guanidinium aluminum sulfate hexahydrate. <i>Journal of Chemical Physics</i> , 1977, 66, 1758-1759.	3.0	12
50	Electron paramagnetic resonance of Fe^{3+} in diammonium indium pentachloride monohydrate. <i>Journal of Chemical Physics</i> , 1977, 66, 4172-4175.	3.0	14
51	EPR of Gd^{3+} in $\text{NdCl}_3 \cdot 6\text{H}_2\text{O}$. <i>Journal of Chemical Physics</i> , 1976, 64, 2168-2173.	3.0	8
52	Electron paramagnetic resonance of Fe^{3+} in guanidinium aluminum sulfate hexahydrate. <i>Journal of Chemical Physics</i> , 1976, 65, 3506-3509.	3.0	14
53	Calculation of Pulsed EPR Derivative Signal for Two Coupled Gd^{3+} Ions by Dipolar-Interaction Using Doubly Rotating Frames. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1