Sushil K Misra

List of Publications by Year
in descending order

53	881	623734	526287
papers	citations	14 h-index	27 g-index

86	86	86	862
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	SPIN-HAMILTONIAN FORMALISMS IN ELECTRON MAGNETIC RESONANCE (EMR) AND RELATED SPECTROSCOPIES. Applied Spectroscopy Reviews, 2001, 36, 11-63.	6.7	224
2	An EPR Study of Some Highly Distorted Tetrahedral Manganese(II) Complexes at High Magnetic Fields. Inorganic Chemistry, 1999, 38, 5384-5388.	4.0	54
3	Synthesis and characterization of polyureasilazane derived SiCN ceramics. Journal of Applied Physics, 2006, 99, 113907.	2.5	37
4	A variable temperature EPR study of the manganites (La1/3Sm2/3)2/3SrxBa0.33â^'xMnO3 (x=0.0, 0.1, 0.2,) Tj ETQq0 0 0 rgBT /Overlock Materials, 2010, 322, 2902-2907.	2.3	35
5	Electron spin resonance of Gd3+in trifluorides of La, Ce, Pr, and Nd. Journal of Chemical Physics, 1981, 74, 922-927.	3.0	33
6	Calculation of Double-Quantum-Coherence Two-dimensional Spectra: Distance Measurements and Orientational Correlations. Applied Magnetic Resonance, 2009, 36, 237-258.	1.2	27
7	EPR and Opticalâ€Absorption Studies of Cu²⁺â€Doped Mg(CH₃COO)₂ Â·4H₂O Single Crystal. Physica Status Solidi (B): Basic Research, 1989, 154, 259-271.	1.5	26
8	A multifrequency EPR study of Fe2+ and Mn2+ ions in a ZnSiF6Â·6H2O single crystal at liquid-helium temperatures. Journal of Magnetic Resonance, 2010, 205, 14-22.	2.1	25
9	EPR Spectroscopy and the Electronic Structure of the Oxygen-Evolving Complex of Photosystem II. Applied Magnetic Resonance, 2013, 44, 691-720.	1.2	24
10	Cr 3 + electron paramagnetic resonance study of Sn1â^'xCrxO2â€^(0.00â‰xâ‰0.10). Journal of Applied Physics, 2009, 105, .	2.5	23
11	EPR/FMR, FTIR, X-Ray and Raman Investigations of Fe-Doped SiCN Ceramics. Applied Magnetic Resonance, 2010, 38, 385-402.	1.2	19
12	Study of Hyperfine and Fine Interactions of Nd3+and Ce3+Ions in LaNbO4and PrNbO4Crystals by X-Band EPR at Liquid-Helium Temperaturesâ€. Journal of Physical Chemistry B, 2004, 108, 9397-9402.	2.6	17
13	EPR and magnetization studies of the manganites La0.7-xEuxSr0.3MnO3 (xÂ=Â0.4, 0.5, 0.6, 0.7) and La0.3Nd0.4Sr0.3MnO3 at different temperatures: Conductivity due to hopping of small polarons. Journal of Magnetism and Magnetic Materials, 2021, 519, 167450.	2.3	16
14	Electron paramagnetic resonance of Fe3+ in guanidinium aluminum sulfate hexahydrate. Journal of Chemical Physics, 1976, 65, 3506-3509.	3.0	14
15	Electron paramagnetic resonance of Fe3+in diammonium indium pentachloride monohydrate. Journal of Chemical Physics, 1977, 66, 4172-4175.	3.0	14
16	Variable-frequency EPR study of Mn2+-doped NH4Cl0.9I0.1 single crystal at 9.6, 36, and 249.9GHz: structural phase transition. Journal of Magnetic Resonance, 2003, 160, 131-138.	2.1	14
17	Electron paramagnetic resonance of Cr3+in guanidinium aluminum sulfate hexahydrate. Journal of Chemical Physics, 1977, 66, 1758-1759.	3.0	12
18	EPR of a VO²⁺â€Doped Fe(NH₄)₂ (SO₄)₂ Â·6H₂O Single Crystal. VO²ï£¿Fe²⁺ Exchange Interaction and Spinâ€“Lattice Relaxation Time of Host Fe²⁺ Ions. Physica Status Solidi (B): Basic Research, 1990, 162, 585-595.	1.5	11

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19	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
20	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
21	EPR/FMR Investigation of Mn-Doped SiCN Ceramics. Applied Magnetic Resonance, 2010, 39, 347-356.	1.2	10
22	Systematics of EPR spectra of Gd3+in rareâ€earth trinitrate hexahydrate hosts. Journal of Chemical Physics, 1978, 69, 3093-3099.	3.0	9
23	Electron spin resonance of Gd3+in triacetate tetrahydrates of Sm, Nd, Er, Y, Yb, and Dy. Journal of Chemical Physics, 1983, 78, 5369-5372.	3.0	9
24	A 236 GHz Fe3+ EPR Study of Nanoparticles of the Ferromagnetic Room-Temperature Semiconductor Sn1â^'x Fe x O2 (xÂ=Â0.005). Applied Magnetic Resonance, 2009, 36, 291-295.	1.2	9
25	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
26	EPR of Gd3+ in NdCl3â‹…6H2O. Journal of Chemical Physics, 1976, 64, 2168-2173.	3.0	8
27	Lowâ€temperature Xâ€band EPR study of Mn2+â€, Cu2+â€, and Co2+â€doped NH4I single crystals. Journal of Chemical Physics, 1985, 82, 5307-5309.	3.0	8
28	Electron paramagnetic resonance study of the phase transition in Cu2+â€doped CaCd(CH3COO)4â‹…6H2O. Journal of Chemical Physics, 1986, 84, 2514-2519.	3.0	8
29	EPR Studies of Nanomaterials. , 2011, , 825-843.		8
30	Hostâ€lattice systematics of EPR spectra of Mn2+â€doped isomorphic metal hexakisantipyrine perchlorate and EPR of Cu2+ in copper pentakisantipyrine perchlorate. Journal of Chemical Physics, 1985, 83, 1490-1495.	3.0	7
31	Evidence for Spin-Fracton Relaxation in the Polymer Resin P4VP Doped with Kramers IonsCo2+,Nd3+, andYb3+. Physical Review Letters, 1999, 83, 1866-1869.	7.8	7
32	Variable temperatureX-band EPR ofGd3+inLaNbO4andPrNbO4crystals: Low-symmetry effect, influence of host and impurity paramagnetic ions on linewidth, and onset of antiferromagnetism. Physical Review B, 2003, 67, .	3.2	6
33	Spin-lattice relaxation ofFe3+ions in commercial silicate glasses: Effect of exchange interaction. Physical Review B, 2004, 69, .	3.2	5
34	First Principles Approach to Spin-Hamiltonian Parameters. , 2011, , 295-326.		4
35	Anisotropic magnetic field observed at 300ÂK in citrate-coated iron oxide nanoparticles: effect of counterions. Journal of Nanoparticle Research, 2015, 17, 1.	1.9	4
36	A variable temperature EPR study of Mn2+-doped NH4Cl0.9I0.1 single crystal at 170GHz: Zero-field splitting parameter and its absolute sign. Journal of Magnetic Resonance, 2005, 174, 265-269.	2.1	3

#	Article	IF	Citations
37	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
38	Computation of crystal field parameters using lattice sums as evaluated by the Ewald method. Journal of Chemical Physics, 1979, 71, 1033-1035.	3.0	2
39	Determination of Large Zero-Field Splitting. , 2011, , 589-597.		2
40	A Low Temperature (10ÂK) High-Frequency (208ÂGHz) EPR Study of the Non-Kramers Ion Mn3+ in a MnMo6Se8 Single Crystal. Applied Magnetic Resonance, 2013, 44, 401-410.	1.2	2
41	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
42	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
43	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
44	Exchange-mediated spinâ€“lattice relaxation of Fe3+ ions in borate glasses. Journal of Magnetic Resonance, 2007, 185, 38-41.	2.1	1
45	Calculation of Pulsed EPR Deer Signal for Two Coupled Gd3+ Ions by Dipolar-Interaction Using Doubly Rotating Frames. SSRN Electronic Journal, 0, , .	0.4	1
46	Calculation of pulsed EPR DEER signal for two coupled Gd3+ ions by dipolar interaction using rotating frames. Physica B: Condensed Matter, 2022, , 413903.	2.7	1
47	Epr of Mn2+ in Ni(CH3COO)2 4H2O and K2 Ni(SO4)2 6H2O. Materials Research Society Symposia Proceedings, 1980, 3, 515.	0.1	0
48	Low-temperature ordered states of rare-earth magnetic dipoles inR2Ba4Cu7O15â˜Îas effected by dipole-dipole and exchange interactions: Extension of generalized Luttinger-Tisza method. Physical Review B, 2003, 67, .	3.2	0
49	Determination of Non-Coincident Anisotropic gÌƒ2, Ãƒ2, DÌƒ, and PÌƒ Tensors: Low-Symmetry Considerations. , 2011, , 599-618.		0
50	Spin-Hamiltonian Parameters (SHP) of a Gd3+-Doped Y(BrO3)3Â·9H2O Single Crystal as Studied by Electron Paramagnetic Resonance at 110 and 300ÂK: a Comparison with SHPs in Other R(BrO3)3Â·9H2O [(RÂ=ÂPr, Nd, Sm, Eu, Dy)] Crystals. Applied Magnetic Resonance, 2015, 46, 1069-1077.	1.2	0
51	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
52	Two-Pulse EPR COSY (Correlation Spectroscopy) Sequence: Feasibility for Distance Measurements in Biological Systems. Applied Magnetic Resonance, 2022, 53, 343.	1.2	0
53	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