

Suresh C Sharma

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4677111/publications.pdf>

Version: 2024-02-01

75
papers

1,002
citations

430754

18
h-index

526166

27
g-index

75
all docs

75
docs citations

75
times ranked

611
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of gold nanoparticles on electro-optical properties of a polymer-dispersed liquid crystal. Applied Physics Letters, 2010, 97, .	1.5	75
2	Growth of diamond films and characterization by Raman, scanning electron microscopy, and x-ray photoelectron spectroscopy. Journal of Materials Research, 1990, 5, 2424-2432.	1.2	58
3	A high resolution lifetime study of positron trapping by vacancies in lead. Physics Letters, Section A: General, Atomic and Solid State Physics, 1976, 58, 405-408.	0.9	39
4	Composites of polypyrrole and carbon black: Part III. Chemical synthesis and characterization. Journal of Materials Research, 1995, 10, 1811-1822.	1.2	39
5	Dependence of orthopositronium annihilation rates on density fluctuations in methane gas. Journal of Chemical Physics, 1978, 68, 130.	1.2	38
6	High performance surface plasmon sensors: Simulations and measurements. Journal of Applied Physics, 2015, 118, .	1.1	38
7	Positron annihilation in gaseous hydrogen and hydrogen-neon mixtures. I. Low-energy positrons. Physical Review A, 1979, 20, 347-356.	1.0	34
8	High-Tc superconductor YBa ₂ Cu ₃ O _{7-δ} studied by positron annihilation. Physical Review B, 1988, 37, 603-606.	1.1	30
9	Switchable holographic gratings formed in polymer-dispersed liquid-crystal cells by use of a He-Ne laser. Optics Letters, 2005, 30, 592.	1.7	30
10	Effects of crosslinking agent, cure temperature, and UV flux on the electro-optical properties of polymer-dispersed liquid crystal cells. Journal of Polymer Science, Part B: Polymer Physics, 2004, 42, 404-410.	2.4	29
11	Sensitivity of Orthopositronium Annihilation Rates to Density Fluctuations in Ethane Gas. Physical Review Letters, 1982, 48, 953-956.	2.9	28
12	Positron annihilation in gaseous nitrogen and nitrogen-neon mixtures at 77 K. Physical Review A, 1978, 18, 1426-1434.	1.0	27
13	Positron annihilation in gaseous hydrogen and hydrogen-neon mixtures. II. Positronium. Physical Review A, 1979, 20, 357-363.	1.0	24
14	Deposition of diamond films at low pressures and their characterization by positron annihilation, Raman, scanning electron microscopy, and x-ray photoelectron spectroscopy. Applied Physics Letters, 1990, 56, 1781-1783.	1.5	23
15	Raman scattering study of adsorption/desorption of water from single-walled carbon nanotubes. Journal of Raman Spectroscopy, 2005, 36, 755-761.	1.2	21
16	A review of the electro-optical properties and their modification by radiation in polymer-dispersed liquid crystals and thin films containing CdSe/ZnS quantum dots. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 168, 5-15.	1.7	20
17	Characterization of low pressure deposited diamond films by X-ray photoelectron spectroscopy. Thin Solid Films, 1990, 193-194, 1079-1086.	0.8	18
18	Scanning tunneling microscopy of the electronic structure of chemical vapor deposited diamond films. Applied Physics Letters, 1993, 62, 1889-1891.	1.5	18

#	ARTICLE	IF	CITATIONS
19	Evidence for surface plasmons in a liquid crystal containing gold nanoparticles. Applied Physics Letters, 2012, 101, .	1.5	18
20	Holographically formed Bragg reflection gratings recorded in polymer-dispersed Liquid crystal cells using a He-Ne laser. Applied Physics Letters, 2006, 88, 051121.	1.5	17
21	Nature of defects and their relationship with the growth and properties of diamond films. Physical Review B, 1994, 49, 14573-14581.	1.1	16
22	Effects of formulation variables on liquid-crystal droplet size distributions in ultraviolet-cured polymer-dispersed liquid-crystal cells. Journal of Polymer Science, Part B: Polymer Physics, 2005, 43, 1842-1848.	2.4	16
23	Surface plasmon based sensor with order-of-magnitude higher sensitivity to electric field induced changes in dielectric environment at metal/nematic liquid-crystal interface. Sensors and Actuators A: Physical, 2014, 216, 128-135.	2.0	16
24	Evidence for Droplet Reorientation and Interfacial Charges in a Polymer-Dispersed Liquid-Crystal Cell. Physical Review Letters, 2001, 87, 105501.	2.9	15
25	Positron annihilation and conductivity measurements on poly(pyrrole tosylate) and poly(pyrrole) Tj ETQq1 1 0.784314 rgBT /Overlock 14	1.1	14
26	Density and temperature dependencies of ortho-positronium annihilation rates in ethane gas. Journal of Chemical Physics, 1981, 75, 1226-1229.	1.2	13
27	New Features in the Behavior of Orthopositronium Annihilation Rates near the Vapor-Liquid Critical Point of Ethane. Physical Review Letters, 1984, 52, 2233-2236.	2.9	13
28	Effects of gamma radiation on the dielectric and electro-optical properties of a polymer-dispersed liquid crystal. Physica B: Condensed Matter, 2010, 405, 499-506.	1.3	13
29	A fixed detector Kretschmann configuration optical system to study surface plasmon excitations. Optics and Laser Technology, 2014, 56, 256-262.	2.2	13
30	Positronium formation in gaseous ethane and ethane-Ne mixtures. Canadian Journal of Physics, 1982, 60, 610-614.	0.4	12
31	Hafnium dioxide as a dielectric for highly-sensitive waveguide-coupled surface plasmon resonance sensors. AIP Advances, 2016, 6, 045217.	0.6	12
32	Raman spectroscopy analysis of new copper-cysteamine photosensitizer. Journal of Raman Spectroscopy, 2019, 50, 522-527.	1.2	12
33	Highly sensitive plasmonic sensor fabricated with multilayer Ag/Si3N4/Au nanostructure for the detection of glucose in glucose/water solutions. Sensors and Actuators A: Physical, 2021, 317, 112430.	2.0	12
34	Defects in molecular beam epitaxial GaAs grown at low temperatures. Journal of Electronic Materials, 1994, 23, 519-523.	1.0	11
35	Near-surface defects in hydrogen-plasma-treated boron-doped silicon studied by positron beam spectroscopy. Applied Physics A: Materials Science and Processing, 1999, 68, 643-645.	1.1	11
36	Two-dimensional physisorbed N2 on grafoil studied by positron annihilation spectroscopy. Physical Review B, 1989, 39, 3990-3995.	1.1	10

#	ARTICLE	IF	CITATIONS
37	Photoluminescence spectra of thin films containing CdSe/ZnS quantum dots irradiated by 532-nm laser radiation and gamma-rays. <i>Journal of Luminescence</i> , 2008, 128, 1771-1776.	1.5	10
38	Raman spectroscopy and x-ray diffraction measurements on C ₆₀ compressed in a diamond anvil cell. <i>Physical Review B</i> , 2003, 68, .	1.1	9
39	Electrochromic blueshift in polymer-dispersed liquid-crystal cells. <i>Optics Letters</i> , 2004, 29, 2237.	1.7	9
40	Effects of density and electric field on positron annihilation in methane gas. <i>Journal of Physics B: Atomic and Molecular Physics</i> , 1985, 18, 3245-3253.	1.6	8
41	Pressure and temperature dependences of orthopositronium annihilation rates below the critical temperature of ethane. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1986, 114, 47-50.	0.9	8
42	Monoenergetic positron beam, positron lifetime, and Hall-effect measurements in III-V epilayers grown at low temperatures by molecular beam epitaxy. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1992, 10, 788.	1.6	8
43	Crystal structure of C ₆₀ following compression under 31.1 GPa in diamond anvil cell at room temperature. <i>Solid State Communications</i> , 2003, 127, 295-297.	0.9	8
44	An application of the simple model of positronium-induced cavities to orthopositronium annihilation rates in ethane gas. <i>Journal of Physics B: Atomic and Molecular Physics</i> , 1987, 20, 867-876.	1.6	7
45	Nucleation and growth of diamond in hot filament assisted chemical vapour deposition. <i>Journal of Materials Science Letters</i> , 1991, 10, 515-518.	0.5	7
46	Effects of Monomer Functionality on Switchable Holographic Gratings Formed in Polymer-Dispersed Liquid-Crystal Cells. <i>ChemPhysChem</i> , 2009, 10, 564-570.	1.0	7
47	New metamaterial as a broadband absorber of sunlight with extremely high absorption efficiency. <i>AIP Advances</i> , 2020, 10, .	0.6	7
48	Electro-Optical Properties and Interfacial Charges in Polymer-Dispersed Liquid Crystal Devices. <i>Materials Research Society Symposia Proceedings</i> , 2003, 771, 10181.	0.1	6
49	Effect of pressure on the Raman spectra of methanol-ethanol-water mixture at room temperature. <i>Journal of Raman Spectroscopy</i> , 2005, 36, 24-27.	1.2	6
50	Positron annihilation and scanning electron microscopy studies of γ -irradiated aluminium crystals. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1989, 59, 455-464.	0.7	5
51	Correlation between arsenic precipitates and vacancy-type defects in low-temperature-grown GaAs. <i>Journal of Physics Condensed Matter</i> , 1994, 6, L455-L460.	0.7	5
52	Photoelectron spectroscopy measurements of the valence band structures of polymerized thin films of C ₆₀ and La _{0.1} C ₆₀ . <i>Surface Science</i> , 2002, 520, 186-192.	0.8	5
53	Holographically recorded reverse-mode transmission gratings in polymer-dispersed liquid crystal cells. <i>Applied Physics B: Lasers and Optics</i> , 2008, 93, 481-489.	1.1	5
54	Electronic structure and electrical properties of Na-doped C ₆₀ thin films. <i>Thin Solid Films</i> , 2008, 517, 522-524.	0.8	5

#	ARTICLE	IF	CITATIONS
55	Positronium yields in gaseous N ₂ and N ₂ -Ne mixtures at 77 K. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1979, 73, 244-246.	0.9	4
56	Depth and radial profiles of defects in Czochralski-grown silicon. <i>Applied Physics Letters</i> , 1992, 61, 1939-1941.	1.5	4
57	Defects and arsenic distribution in low-temperature-grown GaAs. <i>Applied Surface Science</i> , 1995, 85, 311-314.	3.1	4
58	A study of texture in diamond films as functions of methane concentration during chemical vapor deposition and post-growth hydrogen treatment. <i>Journal of Materials Research</i> , 1995, 10, 1764-1771.	1.2	4
59	New features in the surface plasmon induced photon drag effect in noble metal thin films. <i>Journal of Physics Communications</i> , 2021, 5, 055005.	0.5	4
60	Effect of gravity on density distributions and orthopositronium annihilation rates in ethane and methane near the critical point. <i>Journal of Chemical Physics</i> , 1983, 78, 6897-6900.	1.2	3
61	Two-dimensional melting of physisorbed submonolayers of argon and nitrogen. <i>Applied Physics A: Solids and Surfaces</i> , 1991, 52, 247-254.	1.4	3
62	Phase transitions in physisorbed ethane investigated by positron-annihilation spectroscopy. <i>Physical Review B</i> , 1999, 60, 2057-2063.	1.1	3
63	A Study of the Structural and Vibrational Properties of Diamond Nanoparticles Grown by Chemical Vapor Deposition. <i>Journal of Nano Research</i> , 2010, 12, 123-130.	0.8	3
64	Structure of diamond nanoparticles grown by chemical vapor deposition. <i>Physica B: Condensed Matter</i> , 2011, 406, 4170-4174.	1.3	3
65	Transition to collective behaviour of a quantum particle in a classical gas. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1989, 22, 1477-1488.	0.6	2
66	Positron-annihilation study of phase transitions in ethane physisorbed on grafoil. <i>Physical Review B</i> , 1994, 49, 2821-2824.	1.1	2
67	New features in the pressure dependence of photoluminescence spectra of C ₆₀ at room temperature. <i>Solid State Communications</i> , 2005, 133, 797-800.	0.9	2
68	SEM observations of high energy alpha-irradiated metal surfaces. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1989, 40-41, 599-602.	0.6	1
69	Positronium quenching via collisions with triplet states of photomagnetic molecules. <i>Physical Review A</i> , 1991, 43, 3247-3259.	1.0	1
70	Effects of growth and postgrowth parameters on the microstructure and copper distribution in Al(Cu)/SiO ₂ thin films. <i>Journal of Electronic Materials</i> , 2002, 31, L7-L10.	1.0	1
71	Virial theorem for localized states of a quantum particle in classical fluids close to the critical point. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1985, 110, 457-460.	0.9	0
72	Microwave-induced changes in the decay rates of positronium localised in fluid ethane. <i>Journal of Physics B: Atomic and Molecular Physics</i> , 1987, 20, L441-L446.	1.6	0

#	ARTICLE	IF	CITATIONS
73	Helium physisorption on internal surfaces of radiation-induced cavities in aluminum: a positron annihilation study. Nuclear Instruments & Methods in Physics Research B, 1991, 56-57, 578-581.	0.6	0
74	Effects of Methane Concentration and Hydrogen Treatment on Preferred Orientation in Diamond Films Grown by Chemical Vapor Deposition. Materials Research Society Symposia Proceedings, 1994, 339, 319.	0.1	0
75	Controlling Electrical Conduction through Noble Metal Thin Films by Surface Plasmon Resonance. Condensed Matter, 2020, 5, 52.	0.8	0