Suryakant K Mishra

List of Publications by Year
in descending order

51 papers	1,509 citations	257450 24 h-index	330143 37 g-index
54 all docs	54 docs citations	54 times ranked	1198 citing authors

#	Article	IF	Citations
1	On the Dynamics of the Carbonâ€“Bromine Bond Dissociation in the 1-Bromo-2-Methylnaphthalene Radical Anion. Molecules, 2022, 27, 4539.	3.8	1
2	Temperature Dependence of Charge and Spin Transfer in Azurin. Journal of Physical Chemistry C, 2021, 125, 9875-9883.	3.1	26
3	Spin control using chiral templated nickel. Applied Physics Letters, 2021, 118, .	3.3	2
4	The Electron Spin as a Chiral Reagent. Angewandte Chemie - International Edition, 2020, 59, 1653-1658.	13.8	65
5	The Electron Spin as a Chiral Reagent. Angewandte Chemie, 2020, 132, 1670-1675.	2.0	8
6	Asymmetric Magnetoelectrochemistry: An Efficient Method to Grow Enantiopure Self-Assemble Monolayer. Magnetochemistry, 2020, 6, 37.	2.4	3
7	Long-Range Spin-Selective Transport in Chiral Metalâ€“Organic Crystals with Temperature-Activated Magnetization. ACS Nano, 2020, 14, 16624-16633.	14.6	51
8	Copper Pyrovanadate Nanoribbons as Efficient Multienzyme Mimicking Nanozyme for Biosensing Applications. ACS Applied Nano Materials, 2020, 3, 7917-7929.	5.0	43
9	Asymmetric reactions induced by electron spin polarization. Physical Chemistry Chemical Physics, 2020, 22, 21570-21582.	2.8	40
10	Exchange Interactions Drive Supramolecular Chiral Induction in Polyaniline. Small Methods, 2020, 4, 2000617.	8.6	9
11	Magnetoelectrochemistry and Asymmetric Electrochemical Reactions. Magnetochemistry, 2020, 6, 1.	2.4	10
12	Spin Filtering Along Chiral Polymers. Angewandte Chemie, 2020, 132, 14779-14784.	2.0	8
13	Spin Filtering Along Chiral Polymers. Angewandte Chemie - International Edition, 2020, 59, 14671-14676.	13.8	64
14	Effect of Chiral Molecules on the Electronâ€™s Spin Wavefunction at Interfaces. Journal of Physical Chemistry Letters, 2020, 11, 1550-1557.	4.6	65
15	Improved analytical framework for quantifying field emission from nanostructures. Materials Chemistry and Physics, 2020, 245, 122686.	4.0	8
16	Length-Dependent Electron Spin Polarization in Oligopeptides and DNA. Journal of Physical Chemistry C, 2020, 124, 10776-10782.	3.1	90
17	Enhancing Viologen's Electrochromism by Incorporating Thiophene: A Step Toward Allâ€Organic Flexible Device. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1800680.	1.8	18
18	Low-Resistance Molecular Wires Propagate Spin-Polarized Currents. Journal of the American Chemical Society, 2019, 141, 14707-14711.	13.7	33

#	Article	IF	Citations
19	Graphene nanoflakes: Foundation for improving solid state electrochemistry based electrochromic devices. Solar Energy Materials and Solar Cells, 2019, 200, 110041.	6.2	15
20	Spin-Dependent Electron Transport through Bacterial Cell Surface Multiheme Electron Conduits. Journal of the American Chemical Society, 2019, 141, 19198-19202.	13.7	67
21	Combined effect of organic-inorganic heterostructure to enhance electrochemical capacitance. Materials Chemistry and Physics, 2019, 238, 121943.	4.0	6
22	Precursor concentration dependent hydrothermal NiO nanopetals: Tuning morphology for efficient applications. Superlattices and Microstructures, 2019, 125, 138-143.	3.1	26
23	Understanding perceived color through gradual spectroscopic variations in electrochromism. Indian Journal of Physics, 2019, 93, 927-933.	1.8	14
24	Effect of Oxidative Damage on Charge and Spin Transport in DNA. Journal of the American Chemical Society, 2019, 141, 123-126.	13.7	32
25	Improved field emission from appropriately packed TiO2 nanorods: Designing the miniaturization. Superlattices and Microstructures, 2019, 126, 1-7.	3.1	16
26	TiO₂â€“Co₃O₄ Coreâ€“Shell Nanorods: Bifunctional Role in Better Energy Storage and Electrochromism. ACS Applied Energy Materials, 2018, 1, 790-798.	5.1	97
27	Polypyrroleâ€“vanadium oxide nanocomposite: polymer dominates crystallanity and oxide dominates conductivity. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	7
28	Generalisation of phonon confinement model for interpretation of Raman line-shape from nano-silicon. Advances in Materials and Processing Technologies, 2018, 4, 227-233.	1.4	6
29	Spectroscopic Evidence of Phosphorous Heterocycleâ€“DNA Interaction and its Verification by Docking Approach. Journal of Fluorescence, 2018, 28, 373-380.	2.5	5
30	Polythiophene -viologen bilayer for electro-trichromic device. Solar Energy Materials and Solar Cells, 2018, 188, 249-254.	6.2	64
31	Porous Silicon's fractal nature revisited. Superlattices and Microstructures, 2018, 120, 141-147.	3.1	14
32	Zn2+ Induced Self-Assembled Growth of Octapodal CuxOâ€“ZnO Microcrystals: Multifunctional Applications in Reductive Degradation of Organic Pollutants and Nonenzymatic Electrochemical Sensing of Glucose. ACS Sustainable Chemistry and Engineering, 2018, 6, 9771-9783.	6.7	29
33	Mesoporous Nickel Oxide (NiO) Nanopetals for Ultrasensitive Glucose Sensing. Nanoscale Research Letters, 2018, 13, 16.	5.7	73
34	Tent-Shaped Surface Morphologies of Silicon: Texturization by Metal Induced Etching. Silicon, 2018, 10, 2801-2807.	3.3	8
35	Quantifying the Short-Range Order in Amorphous Silicon by Raman Scattering. Analytical Chemistry, 2018, 90, 8123-8129.	6.5	47
36	Organic Nanostructures on Inorganic Ones: An Efficient Electrochromic Display by Design. ACS Applied Nano Materials, 2018, 1, 3715-3723.	5.0	37

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37	Interfacial redox centers as origin of color switching in organic electrochromic device. Optical Materials, 2017, 66, 65-71.	3.6	45
38	Spectral Anomaly in Raman Scattering from p-Type Silicon Nanowires. Journal of Physical Chemistry C, 2017, 121, 5372-5378.	3.1	39
39	Live spectroscopy to observe electrochromism in viologen based solid state device. Solid State Communications, 2017, 261, 17-20.	1.9	21
40	An insight of spirooxindole-annulated thiopyran â€“ DNA interaction: spectroscopic and docking approach of these biological materials. Advances in Materials and Processing Technologies, 2017, 3, 339-352.	1.4	1
41	Evidence of bovine serum albumin-viologen herbicide binding interaction and associated structural modifications. Journal of Molecular Structure, 2017, 1139, 447-454.	3.6	7
42	Significant field emission enhancement in ultrathin nano-thorn covered NiO nano-petals. Journal of Materials Chemistry C, 2017, 5, 9611-9618.	5.5	28
43	Synthesis of Conducting Polypyrrole-Titanium Oxide Nanocomposite: Study of Structural, Optical and Electrical Properties. Journal of Inorganic and Organometallic Polymers and Materials, 2017, 27, 257-263.	3.7	26
44	Fast electrochromic display: tetrathiafulvaleneâ€“graphene nanoflake as facilitating materials. Journal of Materials Chemistry C, 2017, 5, 9504-9512.	5.5	55
45	Ecofriendly gold nanoparticles â€“ Lysozyme interaction: Thermodynamical perspectives. Journal of Photochemistry and Photobiology B: Biology, 2017, 174, 284-290.	3.8	22
46	Amplification or cancellation of Fano resonance and quantum confinement induced asymmetries in Raman line-shapes. Physical Chemistry Chemical Physics, 2017, 19, 31788-31795.	2.8	36
47	Construction of well aligned highly dense Cobalt nanoneedles for efficient device application. Advances in Materials and Processing Technologies, 2017, 3, 627-631.	1.4	2
48	Fano Scattering: Manifestation of Acoustic Phonons at the Nanoscale. Journal of Physical Chemistry Letters, 2016, 7, 5291-5296.	4.6	53
49	Role of metal nanoparticles on porosification of silicon by metal induced etching (MIE). Superlattices and Microstructures, 2016, 94, 101-107.	3.1	22
50	Interplay between phonon confinement and Fano effect on Raman line shape for semiconductor nanostructures: Analytical study. Solid State Communications, 2016, 230, 25-29.	1.9	42
51	Effect dietary choline supplementation on egg quality and serumbiochemical profile in White Pekin Ducks. Indian Journal of Animal Research, 2015, , .	0.1	1