Shailendra K Saxena

List of Publications by Year
in descending order

49 papers	1,131 citations	361413 20 h-index	434195 31 g-index
49 all docs	49 docs citations	49 times ranked	849 citing authors

#	Article	IF	Citations
1	Raman Spectroscopy as a Simple yet Effective Analytical Tool for Determining Fermi Energy and Temperature Dependent Fermi Shift in Silicon. Analytical Chemistry, 2022, 94, 1510-1514.	6.5	21
2	Raman Spectromicroscopy: A Tool to â€œSeeâ€•Subtle Aspects in Science, Technology, and Engineering. Journal of Physical Chemistry C, 2022, 126, 4733-4743.	3.1	15
3	Evaluation of Carbon Based Molecular Junctions as Practical Photosensors. ACS Sensors, 2021, 6, 513-522.	7.8	11
4	Photostimulated Near-Resonant Charge Transport over 60 nm in Carbon-Based Molecular Junctions. Journal of the American Chemical Society, 2020, 142, 15420-15430.	13.7	15
5	Comment on â€œExtent of conjugation in diazonium-derived layers in molecular junction devices determined by experiment and modellingâ€•by C. Van Dyck, A. J. Bergren, V. Mukundan, J. A. Fereiro and G. A. DiLabio, Phys. Chem. Chem. Phys., 2019, 21, 16762. Physical Chemistry Chemical Physics, 2020, 22, 21543-21546.	2.8	1
6	Ion-Assisted Resonant Injection and Charge Storage in Carbon-Based Molecular Junctions. Journal of the American Chemical Society, 2020, 142, 11658-11662.	13.7	19
7	Mapping Longitudinal Inhomogeneity in Nanostructures Using Cross-Sectional Spatial Raman Imaging. Journal of Physical Chemistry C, 2020, 124, 6467-6471.	3.1	25
8	Unintended Deviation of Fermi Level from Band Edge in Fractal Silicon Nanostructures: Consequence of Dopantsâ€™ Zonal Depletion. Journal of Physical Chemistry C, 2020, 124, 16675-16679.	3.1	19
9	Lightâ€Stimulated Charge Transport in Bilayer Molecular Junctions for Photodetection. Advanced Optical Materials, 2019, 7, 1901053.	7.3	20
10	Unipolar Injection and Bipolar Transport in Electroluminescent Ru-Centered Molecular Electronic Junctions. Journal of Physical Chemistry C, 2019, 123, 29162-29172.	3.1	10
11	Deconvoluting Diffuse Reflectance Spectra for Retrieving Nanostructuresâ€™ Size Details: An Easy and Efficient Approach. Journal of Physical Chemistry A, 2019, 123, 3607-3614.	2.5	13
12	Precursor concentration dependent hydrothermal NiO nanopetals: Tuning morphology for efficient applications. Superlattices and Microstructures, 2019, 125, 138-143.	3.1	26
13	Structural and optical properties of polyaniline-green silver nanocomposite. Advances in Materials and Processing Technologies, 2019, 5, 172-180.	1.4	2
14	Understanding perceived color through gradual spectroscopic variations in electrochromism. Indian Journal of Physics, 2019, 93, 927-933.	1.8	14
15	Polypyrroleâ€“vanadium oxide nanocomposite: polymer dominates crystallanity and oxide dominates conductivity. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	7
16	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
17	Spectroscopic Evidence of Phosphorous Heterocycleâ€“DNA Interaction and its Verification by Docking Approach. Journal of Fluorescence, 2018, 28, 373-380.	2.5	5
18	Porous Silicon's fractal nature revisited. Superlattices and Microstructures, 2018, 120, 141-147.	3.1	14

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19	Tent-Shaped Surface Morphologies of Silicon: Texturization by Metal Induced Etching. Silicon, 2018, 10, 2801-2807.	3.3	8
20	Quantifying the Short-Range Order in Amorphous Silicon by Raman Scattering. Analytical Chemistry, 2018, 90, 8123-8129.	6.5	47
21	Study of Porous Silicon Prepared Using Metal-Induced Etching (MIE): a Comparison with Laser-Induced Etching (LIE). Silicon, 2017, 9, 483-488.	3.3	30
22	Interfacial redox centers as origin of color switching in organic electrochromic device. Optical Materials, 2017, 66, 65-71.	3.6	45
23	Spectral Anomaly in Raman Scattering from p-Type Silicon Nanowires. Journal of Physical Chemistry C, 2017, 121, 5372-5378.	3.1	39
24	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
25	Evidence of bovine serum albumin-viologen herbicide binding interaction and associated structural modifications. Journal of Molecular Structure, 2017, 1139, 447-454.	3.6	7
26	Significant field emission enhancement in ultrathin nano-thorn covered NiO nano-petals. Journal of Materials Chemistry C, 2017, 5, 9611-9618.	5.5	28
27	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
28	Importance of frequency dependent magnetoresistance measurements in analysing the intrinsicality of magnetodielectric effect: A case study. Journal of Applied Physics, 2017, 122, .	2.5	8
29	Strain control of Urbach energy in Cr-doped PrFeO3. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	53
30	Electronic and optical properties of BaTiO3 across tetragonal to cubic phase transition: An experimental and theoretical investigation. Journal of Applied Physics, 2017, 122, .	2.5	95
31	Fast electrochromic display: tetrathiafulvaleneâ€“graphene nanoflake as facilitating materials. Journal of Materials Chemistry C, 2017, 5, 9504-9512.	5.5	55
32	Ecofriendly gold nanoparticles â€“ Lysozyme interaction: Thermodynamical perspectives. Journal of Photochemistry and Photobiology B: Biology, 2017, 174, 284-290.	3.8	22
33	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
34	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
35	Effect of Mn doping on dielectric response and optical band gap of LaGaO₃. Advances in Materials and Processing Technologies, 2017, 3, 539-549.	1.4	3
36	Probing structural distortions in rare earth chromites using Indian synchrotron radiation source. Indian Journal of Physics, 2016, 90, 1347-1354.	1.8	16

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37	Fano Scattering: Manifestation of Acoustic Phonons at the Nanoscale. Journal of Physical Chemistry Letters, 2016, 7, 5291-5296.	4.6	53
38	Observation of room temperature magnetodielectric effect in Mn-doped lanthanum gallate and study of its magnetic properties. Journal of Materials Chemistry C, 2016, 4, 10876-10886.	5.5	17
39	Raman spectroscopy for study of interplay between phonon confinement and Fano effect in silicon nanowires. Journal of Raman Spectroscopy, 2016, 47, 283-288.	2.5	43
40	Role of metal nanoparticles on porosification of silicon by metal induced etching (MIE). Superlattices and Microstructures, 2016, 94, 101-107.	3.1	22
41	Observation of large dielectric permittivity and dielectric relaxation phenomenon in Mn-doped lanthanum gallate. RSC Advances, 2016, 6, 26621-26629.	3.6	30
42	Possibility of spin-polarized transport in edge fluorinated armchair boron nitride nanoribbons. RSC Advances, 2016, 6, 11014-11022.	3.6	17
43	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
44	Effect of Hf doping on the structural, dielectric and optical properties of CaCu3Ti4O12 ceramic. Journal of Materials Science: Materials in Electronics, 2016, 27, 5878-5885.	2.2	11
45	Room temperature magnetodielectric studies on Mn-doped LaGaO₃. Materials Research Express, 2015, 2, 096105.	1.6	17
46	Effect of silicon resistivity on its porosification using metal induced chemical etching: morphology and photoluminescence studies. Materials Research Express, 2015, 2, 036501.	1.6	22
47	Origin of photoluminescence from silicon nanowires prepared by metal induced etching (MIE). AIP Conference Proceedings, 2015, , .	0.4	1
48	Silicon nanowires prepared by metal induced etching (MIE): good field emitters. RSC Advances, 2014, 4, 57799-57803.	3.6	33
49	Qualitative Evolution of Asymmetric Raman Line-Shape for NanoStructures. Silicon, 2014, 6, 117-121.	3.3	59