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	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
2	Qualitative Evolution of Asymmetric Raman Line-Shape for NanoStructures. Silicon, 2014, 6, 117-121.	3.3	59
3	Fast electrochromic display: tetrathiafulvaleneâ€“graphene nanoflake as facilitating materials. Journal of Materials Chemistry C, 2017, 5, 9504-9512.	5.5	55
4	Fano Scattering: Manifestation of Acoustic Phonons at the Nanoscale. Journal of Physical Chemistry Letters, 2016, 7, 5291-5296.	4.6	53
5	Strain control of Urbach energy in Cr-doped PrFeO3. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	53
6	Quantifying the Short-Range Order in Amorphous Silicon by Raman Scattering. Analytical Chemistry, 2018, 90, 8123-8129.	6.5	47
7	Interfacial redox centers as origin of color switching in organic electrochromic device. Optical Materials, 2017, 66, 65-71.	3.6	45
8	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
9	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
10	Spectral Anomaly in Raman Scattering from p-Type Silicon Nanowires. Journal of Physical Chemistry C, 2017, 121, 5372-5378.	3.1	39
11	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
12	Silicon nanowires prepared by metal induced etching (MIE): good field emitters. RSC Advances, 2014, 4, 57799-57803.	3.6	33
13	Observation of large dielectric permittivity and dielectric relaxation phenomenon in Mn-doped lanthanum gallate. RSC Advances, 2016, 6, 26621-26629.	3.6	30
14	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
15	Significant field emission enhancement in ultrathin nano-thorn covered NiO nano-petals. Journal of Materials Chemistry C, 2017, 5, 9611-9618.	5.5	28
16	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
17	Precursor concentration dependent hydrothermal NiO nanopetals: Tuning morphology for efficient applications. Superlattices and Microstructures, 2019, 125, 138-143.	3.1	26
18	Mapping Longitudinal Inhomogeneity in Nanostructures Using Cross-Sectional Spatial Raman Imaging. Journal of Physical Chemistry C, 2020, 124, 6467-6471.	3.1	25

#	Article	IF	Citations
19	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
20	Role of metal nanoparticles on porosification of silicon by metal induced etching (MIE). Superlattices and Microstructures, 2016, 94, 101-107.	3.1	22
21	Ecofriendly gold nanoparticles â€“ Lysozyme interaction: Thermodynamical perspectives. Journal of Photochemistry and Photobiology B: Biology, 2017, 174, 284-290.	3.8	22
22	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
23	Lightâ€Stimulated Charge Transport in Bilayer Molecular Junctions for Photodetection. Advanced Optical Materials, 2019, 7, 1901053.	7.3	20
24	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
25	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
26	Room temperature magnetodielectric studies on Mn-doped LaGaO₃. Materials Research Express, 2015, 2, 096105.	1.6	17
27	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
28	Possibility of spin-polarized transport in edge fluorinated armchair boron nitride nanoribbons. RSC Advances, 2016, 6, 11014-11022.	3.6	17
29	Probing structural distortions in rare earth chromites using Indian synchrotron radiation source. Indian Journal of Physics, 2016, 90, 1347-1354.	1.8	16
30	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
31	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
32	Porous Silicon's fractal nature revisited. Superlattices and Microstructures, 2018, 120, 141-147.	3.1	14
33	Understanding perceived color through gradual spectroscopic variations in electrochromism. Indian Journal of Physics, 2019, 93, 927-933.	1.8	14
34	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
35	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
36	Evaluation of Carbon Based Molecular Junctions as Practical Photosensors. ACS Sensors, 2021, 6, 513-522.	7.8	11

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37	Unipolar Injection and Bipolar Transport in Electroluminescent Ru-Centered Molecular Electronic Junctions. Journal of Physical Chemistry C, 2019, 123, 29162-29172.	3.1	10
38	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
39	Tent-Shaped Surface Morphologies of Silicon: Texturization by Metal Induced Etching. Silicon, 2018, 10, 2801-2807.	3.3	8
40	Evidence of bovine serum albumin-viologen herbicide binding interaction and associated structural modifications. Journal of Molecular Structure, 2017, 1139, 447-454.	3.6	7
41	Polypyrroleâ€“vanadium oxide nanocomposite: polymer dominates crystallanity and oxide dominates conductivity. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	7
42	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
43	Spectroscopic Evidence of Phosphorous Heterocycleâ€“DNA Interaction and its Verification by Docking Approach. Journal of Fluorescence, 2018, 28, 373-380.	2.5	5
44	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
45	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
46	Structural and optical properties of polyaniline-green silver nanocomposite. Advances in Materials and Processing Technologies, 2019, 5, 172-180.	1.4	2
47	Origin of photoluminescence from silicon nanowires prepared by metal induced etching (MIE). AIP Conference Proceedings, 2015, , .	0.4	1
48	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
49	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