

Manushree Tanwar

List of Publications by Year in descending order

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docs citations

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Polythiophene-PCBM-Based All-Organic Electrochromic Device: Fast and Flexible. ACS Applied Electronic Materials, 2019, 1, 58-63.	2.0	81
2	Prussian Blue-Cobalt Oxide Double Layer for Efficient All-Inorganic Multicolor Electrochromic Device. ACS Applied Electronic Materials, 2020, 2, 1768-1773.	2.0	68
3	Polythiophene-nanoWO ₃ bilayer as an electrochromic infrared filter: a transparent heat shield. Journal of Materials Chemistry C, 2020, 8, 1773-1780.	2.7	60
4	Prussian Blue-Viologen Inorganic-Organic Hybrid Blend for Improved Electrochromic Performance. ACS Applied Electronic Materials, 2019, 1, 892-899.	2.0	56
5	Nickel Cobalt Oxide Nanoneedles for Electrochromic Glucose Sensors. ACS Applied Nano Materials, 2021, 4, 2143-2152.	2.4	54
6	Quantifying the Short-Range Order in Amorphous Silicon by Raman Scattering. Analytical Chemistry, 2018, 90, 8123-8129.	3.2	47
7	Tracking Dynamic Doping in a Solid-State Electrochromic Device: Raman Microscopy Validates the Switching Mechanism. Analytical Chemistry, 2020, 92, 6088-6093.	3.2	38
8	Multi-walled carbon nanotubes doping for fast and efficient hybrid solid state electrochromic device. Applied Physics Letters, 2021, 118, .	1.5	37
9	Nano-cobalt oxide/viologen hybrid solid state device: Electrochromism beyond chemical cell. Applied Physics Letters, 2020, 116, .	1.5	36
10	MoS ₂ nano-flower incorporation for improving organic-organic solid state electrochromic device performance. Solar Energy Materials and Solar Cells, 2022, 236, 111502.	3.0	33
11	Pentafluorophenyl substituted fulleropyrrolidine: a molecule enabling the most efficient flexible electrochromic device with fast switching. Journal of Materials Chemistry C, 2021, 9, 3462-3469.	2.7	26
12	Mapping Longitudinal Inhomogeneity in Nanostructures Using Cross-Sectional Spatial Raman Imaging. Journal of Physical Chemistry C, 2020, 124, 6467-6471.	1.5	25
13	Raw hibiscus extract as redox active biomaterial for novel herbal electrochromic device. Solar Energy Materials and Solar Cells, 2020, 215, 110588.	3.0	21
14	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.	3.2	21
15	Unintended Deviation of Fermi Level from Band Edge in Fractal Silicon Nanostructures: Consequence of Dopants' Zonal Depletion. Journal of Physical Chemistry C, 2020, 124, 16675-16679.	1.5	19
16	Fano-Type Wavelength-Dependent Asymmetric Raman Line Shapes from MoS ₂ Nanoflakes. ACS Physical Chemistry Au, 2022, 2, 417-422.	1.9	19
17	Pseudo-Anomalous Size-Dependent Electron-Phonon Interaction in Graded Energy Band: Solving the Fano Paradox. Journal of Physical Chemistry Letters, 2021, 12, 2044-2051.	2.1	18
18	Prussian blue-based inorganic flexible electrochromism glucose sensor. IET Nanodielectrics, 2021, 4, 165-170.	2.0	18

#	ARTICLE	IF	CITATIONS
19	Effect of some physical perturbations and their interplay on Raman spectral line shapes in silicon: A brief review. <i>Journal of Raman Spectroscopy</i> , 2021, 52, 2100-2118.	1.2	17
20	Chronoamperometric deposition of transparent WO ₃ film for application as power efficient electrochromic auxiliary electrode. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 365103.	1.3	16
21	Raman Spectromicroscopy: A Tool to See Subtle Aspects in Science, Technology, and Engineering. <i>Journal of Physical Chemistry C</i> , 2022, 126, 4733-4743.	1.5	15
22	Anharmonicity induced faster decay of hot phonons in rutile TiO ₂ nanorods: a Raman spectromicroscopy study. <i>Materials Advances</i> , 2022, 3, 1602-1608.	2.6	14
23	Bifunctional Application of Viologen-MoS ₂ -CNT/Polythiophene Device as Electrochromic Diode and Half-Wave Rectifier. <i>ACS Materials Au</i> , 2022, 2, 293-300.	2.6	14
24	Deconvoluting Diffuse Reflectance Spectra for Retrieving Nanostructures' Size Details: An Easy and Efficient Approach. <i>Journal of Physical Chemistry A</i> , 2019, 123, 3607-3614.	1.1	13
25	Chronopotentiometric Deposition of Nanocobalt Oxide for Electrochromic Auxiliary Active Electrode Application. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020, 217, 2000173.	0.8	12
26	Predicting Raman line shapes from amorphous silicon clusters for estimating short-range order. <i>Journal of Raman Spectroscopy</i> , 2021, 52, 2081-2088.	1.2	12
27	Size dependence of Raman line-shape parameters due to confined phonons in silicon nanowires. <i>Advances in Materials and Processing Technologies</i> , 2020, 6, 669-676.	0.8	11
28	MoS ₂ doping and concentration optimization for application-specific design of P3HT-viologen-based solid state electrochromic device. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 375101.	1.3	11
29	Nonlinear Temperature-Dependent Phonon Decay in Heavily Doped Silicon: Predominant Interferon-Mediated Cold Phonon Annihilation. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 5232-5239.	2.1	9
30	Charge Storage Capabilities of Fractal Porous Silicon Obtained Using Simple Metal Assisted Porosification Method. <i>Silicon</i> , 2023, 15, 167-175.	1.8	9
31	Improved analytical framework for quantifying field emission from nanostructures. <i>Materials Chemistry and Physics</i> , 2020, 245, 122686.	2.0	8
32	Aloe Vera Flower Extract as a Botanical Resistive Memory Element: A Natural Memristor!. <i>ACS Applied Electronic Materials</i> , 2021, 3, 1556-1559.	2.0	8
33	Ultrafast carrier dynamics in a monolayer MoS ₂ at carrier densities well above Mott density. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 155401.	0.7	8
34	Brain Tumour Detection and Grading Using Raman Scattering: Analogy from Semiconductors for Solving Biological Problem. <i>Advances in Materials and Processing Technologies</i> , 2020, , 1-12.	0.8	7
35	Electrochemically reduced graphene oxide/nano-WO ₃ composite-based supercapacitor electrodes for better energy storage. <i>European Physical Journal: Special Topics</i> , 2022, 231, 2927-2932.	1.2	7
36	Generalisation of phonon confinement model for interpretation of Raman line-shape from nano-silicon. <i>Advances in Materials and Processing Technologies</i> , 2018, 4, 227-233.	0.8	6

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37	Low voltage colour modulation in hydrothermally grown Ni-Co nanoneedles for electrochromic application. IET Nanodielectrics, 2021, 4, 75-80.	2.0	6
38	Hydrothermally grown nano-WO ₃ electrochromic film: structural and Raman spectroscopic study. Advances in Materials and Processing Technologies, 2022, 8, 970-976.	0.8	5
39	Inverse Size Dependent Fano Parameter in Silicon Porous Wires: Consequence of Quasi-Continuum Flattening. Journal of Physical Chemistry C, 2021, 125, 12767-12773.	1.5	5
40	Comparative Account of Biomolecular Changes Post Epstein Barr Virus Infection of the Neuronal and Glial Cells Using Raman Microspectroscopy. ACS Chemical Neuroscience, 2022, 13, 1627-1637.	1.7	5
41	Quantifying Size Dependent Electron Emission from Silicon Nanowires Array. Silicon, 2022, 14, 5585-5594.	1.8	4
42	A comparative study of ultrafast carrier dynamics near A, B, and C-excitons in a monolayer MoS ₂ at high excitation densities. Optical Materials, 2022, 126, 112224.	1.7	4
43	Early biomolecular changes in brain microvascular endothelial cells under Epstein-Barr virus influence: a Raman microspectroscopic investigation. Integrative Biology (United Kingdom), 2022, 14, 89-97.	0.6	4
44	Atypical Green Luminescence from Raw Cassia Siamea Extract: A Comparison with Red Emitting Tinospora Cordifolia. ACS Applied Bio Materials, 2021, 4, 5981-5986.	2.3	3
45	Improved ionic solid/viologen hybrid electrochromic device using pre-bleached Prussian blue electrode. IET Nanodielectrics, 2021, 4, 193-200.	2.0	2
46	Parallel or Interconnected Pores™ Formation through Etchant Selective Silicon Porosification. Canadian Journal of Chemistry, 0, , .	0.6	1
47	Synthesizing Luminescent Carbon from Condensed Tobacco Smoke: Bio-Waste for Possible Bioimaging. Canadian Journal of Chemistry, 0, , .	0.6	0