

Rajesh Kumar

List of Publications by Year in descending order

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157
papers

3,450
citations

136885

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223716

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159
all docs

159
docs citations

159
times ranked

2079
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatially Resolved Raman Spectroelectrochemistry of Solid-State Polythiophene/Viologen Memory Devices. <i>Journal of the American Chemical Society</i> , 2012, 134, 14869-14876.	6.6	118
2	TiO ₂ –Co ₃ O ₄ Core–Shell Nanorods: Bifunctional Role in Better Energy Storage and Electrochromism. <i>ACS Applied Energy Materials</i> , 2018, 1, 790-798.	2.5	97
3	Electronic and optical properties of BaTiO ₃ across tetragonal to cubic phase transition: An experimental and theoretical investigation. <i>Journal of Applied Physics</i> , 2017, 122, .	1.1	95
4	Diffuse reflectance spectroscopy: An effective tool to probe the defect states in wide band gap semiconducting materials. <i>Materials Science in Semiconductor Processing</i> , 2018, 86, 151-156.	1.9	88
5	Polythiophene–PCBM-Based All-Organic Electrochromic Device: Fast and Flexible. <i>ACS Applied Electronic Materials</i> , 2019, 1, 58-63.	2.0	81
6	Mesoporous Nickel Oxide (NiO) Nanopetals for Ultrasensitive Glucose Sensing. <i>Nanoscale Research Letters</i> , 2018, 13, 16.	3.1	73
7	Prussian Blue-Cobalt Oxide Double Layer for Efficient All-Inorganic Multicolor Electrochromic Device. <i>ACS Applied Electronic Materials</i> , 2020, 2, 1768-1773.	2.0	68
8	Polythiophene -viologen bilayer for electro-trichromic device. <i>Solar Energy Materials and Solar Cells</i> , 2018, 188, 249-254.	3.0	64
9	Polythiophene-nanoWO ₃ bilayer as an electrochromic infrared filter: a transparent heat shield. <i>Journal of Materials Chemistry C</i> , 2020, 8, 1773-1780.	2.7	60
10	Temperature dependent Raman modes of reduced graphene oxide: Effect of anharmonicity, crystallite size and defects. <i>Carbon</i> , 2021, 184, 437-444.	5.4	60
11	Qualitative Evolution of Asymmetric Raman Line-Shape for NanoStructures. <i>Silicon</i> , 2014, 6, 117-121.	1.8	59
12	Prussian Blue-Viologen Inorganic–Organic Hybrid Blend for Improved Electrochromic Performance. <i>ACS Applied Electronic Materials</i> , 2019, 1, 892-899.	2.0	56
13	Current status of some electrochromic materials and devices: a brief review. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 503002.	1.3	56
14	Fast electrochromic display: tetrathiafulvalene–graphene nanoflake as facilitating materials. <i>Journal of Materials Chemistry C</i> , 2017, 5, 9504-9512.	2.7	55
15	Nickel Cobalt Oxide Nanoneedles for Electrochromic Glucose Sensors. <i>ACS Applied Nano Materials</i> , 2021, 4, 2143-2152.	2.4	54
16	Fano Scattering: Manifestation of Acoustic Phonons at the Nanoscale. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 5291-5296.	2.1	53
17	Strain control of Urbach energy in Cr-doped PrFeO ₃ . <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	1.1	53
18	Structural, optical and electronic properties of RFeO ₃ . <i>Ceramics International</i> , 2018, 44, 8344-8349.	2.3	51

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19	Quantifying the Short-Range Order in Amorphous Silicon by Raman Scattering. <i>Analytical Chemistry</i> , 2018, 90, 8123-8129.	3.2	47
20	Interfacial redox centers as origin of color switching in organic electrochromic device. <i>Optical Materials</i> , 2017, 66, 65-71.	1.7	45
21	Investigation of temperature-dependent optical properties of TiO ₂ using diffuse reflectance spectroscopy. <i>SN Applied Sciences</i> , 2019, 1, 1.	1.5	45
22	Raman spectroscopy for study of interplay between phonon confinement and Fano effect in silicon nanowires. <i>Journal of Raman Spectroscopy</i> , 2016, 47, 283-288.	1.2	43
23	Interplay between phonon confinement and Fano effect on Raman line shape for semiconductor nanostructures: Analytical study. <i>Solid State Communications</i> , 2016, 230, 25-29.	0.9	42
24	Spectral Anomaly in Raman Scattering from p-Type Silicon Nanowires. <i>Journal of Physical Chemistry C</i> , 2017, 121, 5372-5378.	1.5	39
25	Quantum confinement effects in silicon nanocrystals produced by laser-induced etching and cw laser annealing. <i>Semiconductor Science and Technology</i> , 2006, 21, 1627-1632.	1.0	38
26	Tracking Dynamic Doping in a Solid-State Electrochromic Device: Raman Microscopy Validates the Switching Mechanism. <i>Analytical Chemistry</i> , 2020, 92, 6088-6093.	3.2	38
27	Organic Nanostructures on Inorganic Ones: An Efficient Electrochromic Display by Design. <i>ACS Applied Nano Materials</i> , 2018, 1, 3715-3723.	2.4	37
28	Multi-walled carbon nanotubes doping for fast and efficient hybrid solid state electrochromic device. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	37
29	Amplification or cancellation of Fano resonance and quantum confinement induced asymmetries in Raman line-shapes. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 31788-31795.	1.3	36
30	Nano-cobalt oxide/viologen hybrid solid state device: Electrochromism beyond chemical cell. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	36
31	Photoexcited Fano interaction in laser-etched silicon nanostructures. <i>Journal of Applied Physics</i> , 2007, 101, 064315.	1.1	35
32	Fe doped LaGaO ₃ : good white light emitters. <i>RSC Advances</i> , 2016, 6, 100230-100238.	1.7	35
33	Study on the mineral phase characteristics of various Indian biomass and coal fly ash for its use in masonry construction products. <i>Construction and Building Materials</i> , 2020, 235, 117413.	3.2	35
34	Silicon nanowires prepared by metal induced etching (MIE): good field emitters. <i>RSC Advances</i> , 2014, 4, 57799-57803.	1.7	33
35	Effect of structural disorder on the electronic and phononic properties of Hf doped BaTiO ₃ . <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 9498-9506.	1.1	33
36	MoS ₂ nano-flower incorporation for improving organic-organic solid state electrochromic device performance. <i>Solar Energy Materials and Solar Cells</i> , 2022, 236, 111502.	3.0	33

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37	Strain induced disordered phonon modes in Cr doped PrFeO ₃ . Journal of Physics Condensed Matter, 2019, 31, 275602.	0.7	31
38	Observation of large dielectric permittivity and dielectric relaxation phenomenon in Mn-doped lanthanum gallate. RSC Advances, 2016, 6, 26621-26629.	1.7	30
39	Study of Porous Silicon Prepared Using Metal-Induced Etching (MIE): a Comparison with Laser-Induced Etching (LIE). Silicon, 2017, 9, 483-488.	1.8	30
40	Electronic Raman scattering in the laser-etched silicon nanostructures. Journal of Applied Physics, 2010, 107, .	1.1	29
41	Optical spectroscopy: An effective tool to probe the origin of dielectric loss in Cr doped PrFeO ₃ . Ceramics International, 2019, 45, 8585-8592.	2.3	29
42	Temporal <i>In Vitro</i> Raman Spectroscopy for Monitoring Replication Kinetics of Epstein-Barr Virus Infection in Glial Cells. ACS Omega, 2020, 5, 29547-29560.	1.6	29
43	Asymmetry to symmetry transition of Fano line-shape: analytical description. Indian Journal of Physics, 2013, 87, 49-52.	0.9	28
44	Significant field emission enhancement in ultrathin nano-thorn covered NiO nano-petals. Journal of Materials Chemistry C, 2017, 5, 9611-9618.	2.7	28
45	Formation of Si and Ge quantum structures by laser-induced etching. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 2444-2450.	0.8	27
46	Macro and microsurface morphology reconstructions during laser-induced etching of silicon. Micron, 2008, 39, 287-293.	1.1	27
47	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.	1.9	26
48	Precursor concentration dependent hydrothermal NiO nanopetals: Tuning morphology for efficient applications. Superlattices and Microstructures, 2019, 125, 138-143.	1.4	26
49	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
50	Direct correlation between the band gap and dielectric loss in Hf doped BaTiO ₃ . Journal of Materials Science: Materials in Electronics, 2019, 30, 8064-8070.	1.1	25
51	Mapping Longitudinal Inhomogeneity in Nanostructures Using Cross-Sectional Spatial Raman Imaging. Journal of Physical Chemistry C, 2020, 124, 6467-6471.	1.5	25
52	Electron Donor Ferrocenyl Phenothiazine: Counter Ion for Improving All-Organic Electrochromism. ACS Applied Electronic Materials, 2020, 2, 2994-3000.	2.0	23
53	Manifestation of anharmonicities in terms of phonon modes' energy and lifetime in multiwall carbon nanotubes. Carbon, 2021, 171, 568-574.	5.4	23
54	Effect of silicon resistivity on its porosification using metal induced chemical etching: morphology and photoluminescence studies. Materials Research Express, 2015, 2, 036501.	0.8	22

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55	Role of metal nanoparticles on porosification of silicon by metal induced etching (MIE). Superlattices and Microstructures, 2016, 94, 101-107.	1.4	22
56	Ecofriendly gold nanoparticles – Lysozyme interaction: Thermodynamical perspectives. Journal of Photochemistry and Photobiology B: Biology, 2017, 174, 284-290.	1.7	22
57	Effect of self-doping on the charge state of Fe ions and crystal field transitions in YFeO ₃ : Experiments and theory. Journal of Applied Physics, 2019, 125, .	1.1	22
58	Size-dependent Fano Interaction in the Laser-etched Silicon Nanostructures. Nanoscale Research Letters, 2008, 3, .	3.1	21
59	Live spectroscopy to observe electrochromism in viologen based solid state device. Solid State Communications, 2017, 261, 17-20.	0.9	21
60	Raw hibiscus extract as redox active biomaterial for novel herbal electrochromic device. Solar Energy Materials and Solar Cells, 2020, 215, 110588.	3.0	21
61	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
62	Electron-beam evaporated silicon as a top contact for molecular electronic device fabrication. Physical Chemistry Chemical Physics, 2011, 13, 14318.	1.3	20
63	Effect of electron irradiation on the optical properties of SrTiO ₃ : An experimental and theoretical investigations. Materials Research Express, 2018, 5, 036210.	0.8	20
64	Indication of Neurodegenerative Cascade Initiation by Amyloid-like Aggregate-Forming EBV Proteins and Peptide in Alzheimer's Disease. ACS Chemical Neuroscience, 2021, 12, 3957-3967.	1.7	20
65	Plant derived active compounds as potential anti SARS-CoV-2 agents: an <i>in-silico</i> study. Journal of Biomolecular Structure and Dynamics, 2022, 40, 10629-10650.	2.0	19
66	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
67	Fano-Type Wavelength-Dependent Asymmetric Raman Line Shapes from MoS ₂ Nanoflakes. ACS Physical Chemistry Au, 2022, 2, 417-422.	1.9	19
68	Enhancing Viologen's Electrochromism by Incorporating Thiophene: A Step Toward All-Organic Flexible Device. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1800680.	0.8	18
69	Manifestation of magnetoelastic interactions in Raman spectra of Ho _x Nd _{1-x} Fe ₃ (BO ₃) ₄ crystals. Journal of Advanced Dielectrics, 2018, 08, 1850011.	1.5	18
70	Charge neutral crystal field transitions: A measure of electron-phonon interaction. Journal of Physics and Chemistry of Solids, 2019, 135, 109102.	1.9	18
71	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
72	Prussian blue-based inorganic flexible electrochromism glucose sensor. IET Nanodielectrics, 2021, 4, 165-170.	2.0	18

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73	Room temperature magnetodielectric studies on Mn-doped LaGaO ₃ . Materials Research Express, 2015, 2, 096105.	0.8	17
74	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.	2.7	17
75	Possibility of spin-polarized transport in edge fluorinated armchair boron nitride nanoribbons. RSC Advances, 2016, 6, 11014-11022.	1.7	17
76	Possible evidence of delocalized excitons in Cr-doped PrFeO ₃ : An experimental and theoretical realization. Journal of Physics and Chemistry of Solids, 2019, 130, 230-235.	1.9	17
77	Effect of some physical perturbations and their interplay on Raman spectral line shapes in silicon: A brief review. Journal of Raman Spectroscopy, 2021, 52, 2100-2118.	1.2	17
78	Half-metallicity in armchair boron nitride nanoribbons: A first-principles study. Solid State Communications, 2015, 212, 19-24.	0.9	16
79	Probing structural distortions in rare earth chromites using Indian synchrotron radiation source. Indian Journal of Physics, 2016, 90, 1347-1354.	0.9	16
80	Improved field emission from appropriately packed TiO ₂ nanorods: Designing the miniaturization. Superlattices and Microstructures, 2019, 126, 1-7.	1.4	16
81	Recent updates on COVID-19: A holistic review. Heliyon, 2020, 6, e05706.	1.4	16
82	Chronoamperometric deposition of transparent WO ₃ film for application as power efficient electrochromic auxiliary electrode. Journal Physics D: Applied Physics, 2022, 55, 365103.	1.3	16
83	Quantum interference in the Raman scattering from the silicon nanostructures. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 2882-2886.	0.9	15
84	Spectroscopic Investigation of Quantum Confinement Effects in Ion Implanted Silicon-on-Sapphire Films. Silicon, 2010, 2, 25-31.	1.8	15
85	Design and development of in-situ temperature dependent diffuse reflectance spectroscopy setup. Journal of Instrumentation, 2018, 13, T11003-T11003.	0.5	15
86	Graphene nanoflakes: Foundation for improving solid state electrochemistry based electrochromic devices. Solar Energy Materials and Solar Cells, 2019, 200, 110041.	3.0	15
87	Raman Spectromicroscopy: A Tool to See Subtle Aspects in Science, Technology, and Engineering. Journal of Physical Chemistry C, 2022, 126, 4733-4743.	1.5	15
88	Room-Temperature Magneto-dielectric Effect in LaGa _{0.7} Fe _{0.3} O ₃ ; ^{†3} ; Origin and Impact of Excess Oxygen. Inorganic Chemistry, 2017, 56, 3809-3819.	1.9	14
89	Porous Silicon's fractal nature revisited. Superlattices and Microstructures, 2018, 120, 141-147.	1.4	14
90	Understanding perceived color through gradual spectroscopic variations in electrochromism. Indian Journal of Physics, 2019, 93, 927-933.	0.9	14

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91	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
92	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
93	Spectroscopic investigation of porous GaAs prepared by laser-induced etching. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 2236-2242.	1.5	13
94	Possible origin of ferromagnetism in antiferromagnetic orthorhombic-YFeO ₃ : A first-principles study. <i>Ceramics International</i> , 2018, 44, 13507-13512.	2.3	13
95	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
96	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
97	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
98	Raman Scattering and Backscattering Studies of Silicon Nanocrystals Formed Using Sequential Ion Implantation. <i>Silicon</i> , 2014, 6, 65-71.	1.8	11
99	Effect of Hf doping on the structural, dielectric and optical properties of CaCu ₃ Ti ₄ O ₁₂ ceramic. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 5878-5885.	1.1	11
100	Optimizing Photovoltaic Charge Generation of Hybrid Heterojunction Core-Shell Silicon Nanowire Arrays: An FDTD Analysis. <i>ACS Omega</i> , 2018, 3, 4123-4128.	1.6	11
101	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
102	Porous graphene network from graphene oxide: Facile self-assembly and temperature dependent structural evolution. <i>Materials Today Communications</i> , 2021, 26, 101930.	0.9	11
103	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
104	Deposition of Single Phase Polycrystalline γ -Fe ₂ O ₃ Thin Film on Silicon and Silica Substrates by Spray Pyrolysis. <i>Silicon</i> , 2021, 13, 3361-3366.	1.8	10
105	Understanding the phase evolution with temperature in pure (BaFe ₁₂ O ₁₉) and zinc-zirconium co-doped barium hexaferrite (BaZnZrFe ₁₀ O ₁₉) samples using Pawley and Rietveld analysis. <i>Materials Today Communications</i> , 2021, 27, 102291.	0.9	10
106	Raman imaging for measuring homogeneity of dry binary blend: Combining microscopy with spectroscopy for technologists. <i>Analytical Science Advances</i> , 2020, 1, 89-96.	1.2	9
107	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
108	Charge Storage Capabilities of Fractal Porous Silicon Obtained Using Simple Metal Assisted Porosification Method. <i>Silicon</i> , 2023, 15, 167-175.	1.8	9

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109	Importance of frequency dependent magnetoresistance measurements in analysing the intrinsicity of magnetodielectric effect: A case study. <i>Journal of Applied Physics</i> , 2017, 122, .	1.1	8
110	Tent-Shaped Surface Morphologies of Silicon: Texturization by Metal Induced Etching. <i>Silicon</i> , 2018, 10, 2801-2807.	1.8	8
111	Synthesis and characterization of RFeO ₃ : experimental results and theoretical prediction. <i>Advances in Materials and Processing Technologies</i> , 2018, 4, 558-572.	0.8	8
112	Improved analytical framework for quantifying field emission from nanostructures. <i>Materials Chemistry and Physics</i> , 2020, 245, 122686.	2.0	8
113	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
114	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
115	Evidence of bovine serum albumin-viologen herbicide binding interaction and associated structural modifications. <i>Journal of Molecular Structure</i> , 2017, 1139, 447-454.	1.8	7
116	Polypyrrole-vanadium oxide nanocomposite: polymer dominates crystallinity and oxide dominates conductivity. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	1.1	7
117	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
118	Production of colored bi-layered bricks from stone processing wastes: Structural and spectroscopic characterization. <i>Construction and Building Materials</i> , 2021, 278, 122339.	3.2	7
119	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
120	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
121	Low voltage colour modulation in hydrothermally grown NiCo nanoneedles for electrochromic application. <i>IET Nanodielectrics</i> , 2021, 4, 75-80.	2.0	6
122	Ion Conductive Phytic Acid-Quadruplex Hydrogel as Electrolyte for Flexible Electrochromic Device. <i>ChemNanoMat</i> , 2021, 7, 613-619.	1.5	6
123	Spectroscopic Evidence of Phosphorous Heterocycle-DNA Interaction and its Verification by Docking Approach. <i>Journal of Fluorescence</i> , 2018, 28, 373-380.	1.3	5
124	Electronic energy loss (Se) sensitivity of electrochemically synthesized free-standing Cu nanowires irradiated by 120 MeV high energy ion beam of different atomic mass. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	1.1	5
125	Hydrothermally grown nano-WO ₃ electrochromic film: structural and Raman spectroscopic study. <i>Advances in Materials and Processing Technologies</i> , 2022, 8, 970-976.	0.8	5
126	Application of raman spectroscopy for characterization of natural stone sludge waste. <i>Materials Today: Proceedings</i> , 2020, 26, 681-684.	0.9	5

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127	Inverse Size Dependent Fano Parameter in Silicon Porous Wires: Consequence of Quasi-Continuum Flattening. <i>Journal of Physical Chemistry C</i> , 2021, 125, 12767-12773.	1.5	5
128	Comparative Account of Biomolecular Changes Post Epstein Barr Virus Infection of the Neuronal and Glial Cells Using Raman Microspectroscopy. <i>ACS Chemical Neuroscience</i> , 2022, 13, 1627-1637.	1.7	5
129	Temperature dependent phonon confinement in silicon nanostructures. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 373, 133-135.	0.9	4
130	Laser Induced Effects in the Laser Etched Silicon Nanostructures. <i>Japanese Journal of Applied Physics</i> , 2008, 47, 8461-8463.	0.8	4
131	Back surface field approach and ITO/top electrode-based structural optimization of high efficient silicon solar cell. <i>Advances in Materials and Processing Technologies</i> , 2019, 5, 338-347.	0.8	4
132	Silver Columnar Thin-Film-Based Half-Wavelength Antennas for Bright Directional Emission from Nanodiamond Nitrogen-Vacancy Centers. <i>Physical Review Applied</i> , 2019, 11, .	1.5	4
133	Quantifying Size Dependent Electron Emission from Silicon Nanowires Array. <i>Silicon</i> , 2022, 14, 5585-5594.	1.8	4
134	A comparative study of ultrafast carrier dynamics near A, B, and C-excitons in a monolayer MoS ₂ at high excitation densities. <i>Optical Materials</i> , 2022, 126, 112224.	1.7	4
135	Early biomolecular changes in brain microvascular endothelial cells under Epstein-Barr virus influence: a Raman microspectroscopic investigation. <i>Integrative Biology (United Kingdom)</i> , 2022, 14, 89-97.	0.6	4
136	Effect of Mn doping on dielectric response and optical band gap of LaGaO ₃ . <i>Advances in Materials and Processing Technologies</i> , 2017, 3, 539-549.	0.8	3
137	Surface plasmon coupling for selectively enhanced random lasing in periodically patterned silver columnar thin film metamaterials. <i>Applied Physics Letters</i> , 2020, 116, 241902.	1.5	3
138	Atypical Green Luminescence from Raw Cassia Siamea Extract: A Comparison with Red Emitting <i>Tinospora Cordifolia</i> . <i>ACS Applied Bio Materials</i> , 2021, 4, 5981-5986.	2.3	3
139	Effect of low energy ion irradiation on TiO ₂ -based hybrid nanostructures for enhanced photocatalytic activity. <i>European Physical Journal: Special Topics</i> , 2022, 231, 2941-2949.	1.2	3
140	Thermal Effects on Electron-Phonon Interactions in Silicon Nanostructures. <i>Silicon</i> , 2010, 2, 73-77.	1.8	2
141	Spectroscopic Investigation of well aligned Silicon Nano wires Fabricated by Metal Induced Etching. <i>Materials Today: Proceedings</i> , 2016, 3, 1835-1839.	0.9	2
142	Construction of well aligned highly dense Cobalt nanoneedles for efficient device application. <i>Advances in Materials and Processing Technologies</i> , 2017, 3, 627-631.	0.8	2
143	Expressing Raman spectral details through a Raman parameter information diagram. <i>ChemTexts</i> , 2019, 5, 1.	1.0	2
144	Structural and optical properties of polyaniline-green silver nanocomposite. <i>Advances in Materials and Processing Technologies</i> , 2019, 5, 172-180.	0.8	2

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145	Improved ionic solid/viologen hybrid electrochromic device using pre-bleached Prussian blue electrode. IET Nanodielectrics, 2021, 4, 193-200.	2.0	2
146	Post COVID-19 complications, adjunct therapy explored, and steroidal after effects. Canadian Journal of Chemistry, 2022, 100, 459-474.	0.6	2
147	Raman area- and thermal-mapping studies of faceted nano-crystalline Fe_2O_3 thin films deposited by spray pyrolysis. Canadian Journal of Chemistry, 2022, 100, 507-511.	0.6	2
148	Photoinduced charge separation at Zn-Pd/ TiO_2 hybrids interface for enhanced electrochemical and photocatalytic activity. Journal Physics D: Applied Physics, 0, , .	1.3	2
149	Origin of photoluminescence from silicon nanowires prepared by metal induced etching (MIE). AIP Conference Proceedings, 2015, , .	0.3	1
150	An insight of spirooxindole-annulated thiopyran - DNA interaction: spectroscopic and docking approach of these biological materials. Advances in Materials and Processing Technologies, 2017, 3, 339-352.	0.8	1
151	Spatial delocalization of absorption and emission process in silicon nanowires. Journal of Luminescence, 2019, 214, 116551.	1.5	1
152	Parallel or Interconnected Pores™ Formation through Etchant Selective Silicon Porosification. Canadian Journal of Chemistry, 0, , .	0.6	1
153	Enhanced interfacial charge transfer on strain-induced 2D-1D/ MoS_2 - TiO_2 heterostructures for electrochemical and photocatalytic applications. Nanotechnology, 2022, 33, 395704.	1.3	1
154	Quantum confinement effect in cheese like silicon nano structure fabricated by metal induced etching. AIP Conference Proceedings, 2015, , .	0.3	0
155	Lasing based on periodically patterned anisotropic thin film metamaterial. , 2019, , .		0
156	Surface plasmon resonance mediated random lasing in thin film metamaterials. , 2020, , .		0
157	Synthesizing Luminescent Carbon from Condensed Tobacco Smoke: Bio-Waste for Possible Bioimaging. Canadian Journal of Chemistry, 0, , .	0.6	0