

Stephen B Cronin

List of Publications by Year in descending order

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205
papers

11,916
citations

36303

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28297

105
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211
all docs

211
docs citations

211
times ranked

16776
citing authors

#	ARTICLE	IF	CITATIONS
1	A Review of Surface Plasmon Resonance-Enhanced Photocatalysis. <i>Advanced Functional Materials</i> , 2013, 23, 1612-1619.	14.9	1,307
2	Plasmon Resonant Enhancement of Photocatalytic Water Splitting Under Visible Illumination. <i>Nano Letters</i> , 2011, 11, 1111-1116.	9.1	934
3	Photocatalytic Conversion of CO ₂ to Hydrocarbon Fuels via Plasmon-Enhanced Absorption and Metallic Interband Transitions. <i>ACS Catalysis</i> , 2011, 1, 929-936.	11.2	498
4	Graphene-Silicon Schottky Diodes. <i>Nano Letters</i> , 2011, 11, 1863-1867.	9.1	435
5	Stacking-dependent band gap and quantum transport in trilayer graphene. <i>Nature Physics</i> , 2011, 7, 948-952.	16.7	415
6	Black Arsenic-Phosphorus: Layered Anisotropic Infrared Semiconductors with Highly Tunable Compositions and Properties. <i>Advanced Materials</i> , 2015, 27, 4423-4429.	21.0	378
7	Bismuth nanowire arrays: Synthesis and galvanomagnetic properties. <i>Physical Review B</i> , 2000, 61, 2921-2930.	3.2	329
8	Low-dimensional thermoelectric materials. <i>Physics of the Solid State</i> , 1999, 41, 679-682.	0.6	276
9	Giant optical anisotropy in a quasi-one-dimensional crystal. <i>Nature Photonics</i> , 2018, 12, 392-396.	31.4	269
10	Nanoscale temperature mapping in operating microelectronic devices. <i>Science</i> , 2015, 347, 629-632.	12.6	253
11	Recent Progress on Stability and Passivation of Black Phosphorus. <i>Advanced Materials</i> , 2018, 30, e1704749.	21.0	248
12	Formation of Thick Porous Anodic Alumina Films and Nanowire Arrays on Silicon Wafers and Glass. <i>Advanced Functional Materials</i> , 2003, 13, 631-638.	14.9	240
13	Plasmonic Nanoparticle Arrays with Nanometer Separation for High-Performance SERS Substrates. <i>Nano Letters</i> , 2010, 10, 2749-2754.	9.1	231
14	Measuring the Uniaxial Strain of Individual Single-Wall Carbon Nanotubes: Resonance Raman Spectra of Atomic-Force-Microscope Modified Single-Wall Nanotubes. <i>Physical Review Letters</i> , 2004, 93, 167401.	7.8	211
15	Electrical and Optical Characterization of Surface Passivation in GaAs Nanowires. <i>Nano Letters</i> , 2012, 12, 4484-4489.	9.1	183
16	Transport properties of Bi nanowire arrays. <i>Applied Physics Letters</i> , 2000, 76, 3944-3946.	3.3	177
17	Plasmonic enhancement of photocatalytic decomposition of methyl orange under visible light. <i>Journal of Catalysis</i> , 2011, 277, 149-153.	6.2	171
18	Semimetal-semiconductor transition in Bi _{1-x} Sb _x alloy nanowires and their thermoelectric properties. <i>Applied Physics Letters</i> , 2002, 81, 2403-2405.	3.3	170

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19	Experimental proof-of-principle investigation of enhanced Z3DT in (001) oriented Si/Ge superlattices. Applied Physics Letters, 2000, 77, 1490-1492.	3.3	169
20	Plasmon Resonant Enhancement of Carbon Monoxide Catalysis. Nano Letters, 2010, 10, 1314-1318.	9.1	163
21	Atomically Thin Femtojoule Memristive Device. Advanced Materials, 2017, 29, 1703232.	21.0	147
22	CO ₂ Reduction to Methanol on TiO ₂ -Passivated GaP Photocatalysts. ACS Catalysis, 2014, 4, 3512-3516.	11.2	130
23	Making electrical contacts to nanowires with a thick oxide coating. Nanotechnology, 2002, 13, 653-658.	2.6	124
24	Tandem Solar Cells Using GaAs Nanowires on Si: Design, Fabrication, and Observation of Voltage Addition. Nano Letters, 2015, 15, 7217-7224.	9.1	114
25	Raman Spectroscopy of Ripple Formation in Suspended Graphene. Nano Letters, 2009, 9, 4172-4176.	9.1	108
26	THE PROMISE OF LOW-DIMENSIONAL THERMOELECTRIC MATERIALS. Microscale Thermophysical Engineering, 1999, 3, 89-100.	1.2	103
27	Direct Bandgap Transition in Many-Layer MoS ₂ by Plasma-Induced Layer Decoupling. Advanced Materials, 2015, 27, 1573-1578.	21.0	102
28	Thermoelectric transport across graphene/hexagonal boron nitride/graphene heterostructures. Nano Research, 2015, 8, 666-672.	10.4	95
29	Carrier pocket engineering applied to ϵ -strained Si/Ge superlattices to design useful thermoelectric materials. Applied Physics Letters, 1999, 75, 2438-2440.	3.3	94
30	Optical measurement of thermal transport in suspended carbon nanotubes. Applied Physics Letters, 2008, 92, .	3.3	91
31	Spatially Resolved Temperature Measurements of Electrically Heated Carbon Nanotubes. Physical Review Letters, 2009, 102, 105501.	7.8	89
32	Artificial Photosynthesis on TiO ₂ -Passivated InP Nanopillars. Nano Letters, 2015, 15, 6177-6181.	9.1	86
33	Plasmon resonant enhancement of dye sensitized solar cells. Energy and Environmental Science, 2011, 4, 4650.	30.8	85
34	Screening of Excitons in Single, Suspended Carbon Nanotubes. Nano Letters, 2007, 7, 1485-1488.	9.1	81
35	Layer Control of WSe ₂ via Selective Surface Layer Oxidation. ACS Nano, 2016, 10, 6836-6842.	14.6	77
36	Thermal interface conductance across a graphene/hexagonal boron nitride heterojunction. Applied Physics Letters, 2014, 104, .	3.3	76

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37	Temperature Dependence of the Optical Transition Energies of Carbon Nanotubes: The Role of Electron-Phonon Coupling and Thermal Expansion. <i>Physical Review Letters</i> , 2006, 96, 127403.	7.8	75
38	Asymmetric response of interfacial water to applied electric fields. <i>Nature</i> , 2021, 594, 62-65.	27.8	75
39	Optical Absorption and Thermal Transport of Individual Suspended Carbon Nanotube Bundles. <i>Nano Letters</i> , 2009, 9, 590-594.	9.1	72
40	Twin-Free GaAs Nanosheets by Selective Area Growth: Implications for Defect-Free Nanostructures. <i>Nano Letters</i> , 2013, 13, 2506-2515.	9.1	68
41	Quantum size effects in PbSe quantum wells. <i>Applied Physics Letters</i> , 2002, 80, 2690-2692.	3.3	67
42	Nanoscopy of Black Phosphorus Degradation. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600121.	3.7	67
43	Electrochemical gating of individual single-wall carbon nanotubes observed by electron transport measurements and resonant Raman spectroscopy. <i>Applied Physics Letters</i> , 2004, 84, 2052-2054.	3.3	66
44	A New Lower Limit for the Ultimate Breaking Strain of Carbon Nanotubes. <i>ACS Nano</i> , 2010, 4, 5095-5100.	14.6	64
45	A microscopic study of strongly plasmonic Au and Ag island thin films. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	64
46	Low-Frequency Acoustic Phonon Temperature Distribution in Electrically Biased Graphene. <i>Nano Letters</i> , 2011, 11, 85-90.	9.1	63
47	Strain-Induced Interference Effects on the Resonance Raman Cross Section of Carbon Nanotubes. <i>Physical Review Letters</i> , 2005, 95, 217403.	7.8	61
48	Direct Observation of Mode Selective Electron-Phonon Coupling in Suspended Carbon Nanotubes. <i>Nano Letters</i> , 2007, 7, 3618-3622.	9.1	61
49	Indirect Band Gap Emission by Hot Electron Injection in Metal/MoS ₂ and Metal/WSe ₂ Heterojunctions. <i>Nano Letters</i> , 2015, 15, 3977-3982.	9.1	60
50	Surface-enhanced Raman spectroscopy and correlated scanning electron microscopy of individual carbon nanotubes. <i>Applied Physics Letters</i> , 2007, 91, 223105.	3.3	55
51	Direct observation of heat dissipation in individual suspended carbon nanotubes using a two-laser technique. <i>Journal of Applied Physics</i> , 2011, 110, .	2.5	52
52	Enhanced Photocatalytic Reduction of CO ₂ to CO through TiO ₂ Passivation of InP in Ionic Liquids. <i>Chemistry - A European Journal</i> , 2015, 21, 13502-13507.	3.3	52
53	Transport properties of Bi _{1-x} Sb _x alloy nanowires synthesized by pressure injection. <i>Applied Physics Letters</i> , 2001, 79, 677-679.	3.3	49
54	Plasmon-enhanced water splitting on TiO ₂ -passivated GaP photocatalysts. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 3115-3121.	2.8	49

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55	Optimal Bandgap in a 2D Ruddlesden-Popper Perovskite Chalcogenide for Single-Junction Solar Cells. Chemistry of Materials, 2018, 30, 4882-4886.	6.7	49
56	Doping concentration dependence of the photoluminescence spectra of <i>n</i> -type GaAs nanowires. Applied Physics Letters, 2016, 108, .	3.3	46
57	Intersubband transitions in bismuth nanowires. Applied Physics Letters, 2000, 77, 4142-4144.	3.3	44
58	Raman scattering of carbon nanotube bundles under axial strain and strain-induced debundling. Physical Review B, 2007, 75, .	3.2	44
59	Laser Directed Growth of Carbon-Based Nanostructures by Plasmon Resonant Chemical Vapor Deposition. Nano Letters, 2008, 8, 3278-3282.	9.1	43
60	Monitoring Local Electric Fields at Electrode Surfaces Using Surface Enhanced Raman Scattering-Based Stark-Shift Spectroscopy during Hydrogen Evolution Reactions. ACS Applied Materials & Interfaces, 2018, 10, 33678-33683.	8.0	43
61	Plasmon-Resonant Enhancement of Photocatalysis on Monolayer WSe ₂ . ACS Photonics, 2019, 6, 787-792.	6.6	43
62	(Photo)Electrocatalytic CO ₂ Reduction at the Defective Anatase TiO ₂ (101) Surface. ACS Catalysis, 2020, 10, 4048-4058.	11.2	42
63	The effect of gas environment on electrical heating in suspended carbon nanotubes. Journal of Applied Physics, 2010, 108, .	2.5	41
64	Enhanced photocurrent and photoluminescence spectra in MoS ₂ under ionic liquid gating. Nano Research, 2014, 7, 973-980.	10.4	41
65	Direct Observation of Born-Oppenheimer Approximation Breakdown in Carbon Nanotubes. Nano Letters, 2009, 9, 607-611.	9.1	40
66	Thermal Emission Spectra from Individual Suspended Carbon Nanotubes. ACS Nano, 2011, 5, 4634-4640.	14.6	40
67	Gate tunable graphene-silicon Ohmic/Schottky contacts. Applied Physics Letters, 2012, 101, .	3.3	40
68	Plasmon-enhanced photocatalytic water purification. Physical Chemistry Chemical Physics, 2014, 16, 15111.	2.8	38
69	Nanoscopy reveals surface-metallic black phosphorus. Light: Science and Applications, 2016, 5, e16162-e16162.	16.6	37
70	Hot electron-driven photocatalytic water splitting. Physical Chemistry Chemical Physics, 2017, 19, 2877-2881.	2.8	37
71	Near-Field Surface Waves in Few-Layer MoS ₂ . ACS Photonics, 2018, 5, 2106-2112.	6.6	37
72	Probing Gap Plasmons Down to Subnanometer Scales Using Collapsible Nanofingers. ACS Nano, 2017, 11, 5836-5843.	14.6	35

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73	Plasmonic hot spots: nanogap enhancement vs focusing effects from surrounding nanoparticles. Optics Express, 2012, 20, 14656.	3.4	33
74	Large Reduction of Hot Spot Temperature in Graphene Electronic Devices with Heat-Spreading Hexagonal Boron Nitride. ACS Applied Materials & Interfaces, 2018, 10, 11101-11107.	8.0	33
75	Probing the Mechanisms of Strong Fluorescence Enhancement in Plasmonic Nanogaps with Sub-nanometer Precision. ACS Nano, 2020, 14, 14769-14778.	14.6	33
76	Effect of thickness on the thermoelectric properties of PbS thin films. Thin Solid Films, 2003, 423, 115-118.	1.8	32
77	Optical manipulation of plasmonic nanoparticles, bubble formation and patterning of SERS aggregates. Nanotechnology, 2010, 21, 105304.	2.6	29
78	Gate Voltage Controllable Non-Equilibrium and Non-Ohmic Behavior in Suspended Carbon Nanotubes. Nano Letters, 2009, 9, 2862-2866.	9.1	28
79	The Influence of Substrate in Determining the Band Gap of Metallic Carbon Nanotubes. Nano Letters, 2012, 12, 4843-4847.	9.1	28
80	Evaluation of gold-decorated halloysite nanotubes as plasmonic photocatalysts. Catalysis Communications, 2014, 56, 115-118.	3.3	27
81	Microscopic Study of Atomic Layer Deposition of TiO ₂ on GaAs and Its Photocatalytic Application. Chemistry of Materials, 2015, 27, 7977-7981.	6.7	27
82	Raman spectroscopy of substrate-induced compression and substrate doping in thermally cycled graphene. Physical Review B, 2012, 85, .	3.2	26
83	Radiation-induced direct bandgap transition in few-layer MoS ₂ . Applied Physics Letters, 2017, 111, 131101.	3.3	26
84	Thermoacoustic Transduction in Individual Suspended Carbon Nanotubes. ACS Nano, 2015, 9, 5372-5376.	14.6	25
85	Correlation of Ti3+ states with photocatalytic enhancement in TiO ₂ -passivated p-GaAs. Journal of Catalysis, 2016, 337, 133-137.	6.2	25
86	Cross-Plane Seebeck Coefficient Measurement of Misfit Layered Compounds (SnSe) _n (TiSe ₂) _n (n = 1,3,4,5). Nano Letters, 2017, 17, 1978-1986.	9.1	25
87	Quantum size effects in InAs quantum wells. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 17, 313-315.	2.7	24
88	Clamping Instability and van der Waals Forces in Carbon Nanotube Mechanical Resonators. Nano Letters, 2014, 14, 2426-2430.	9.1	24
89	Large Modulations in the Intensity of Raman-Scattered Light from Pristine Carbon Nanotubes. Physical Review Letters, 2009, 103, 067401.	7.8	23
90	Strain-induced D band observed in carbon nanotubes. Nano Research, 2012, 5, 854-862.	10.4	23

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91	Single-ion adsorption and switching in carbon nanotubes. Nature Communications, 2016, 7, 10475.	12.8	23
92	Bismuth Nanowires for Potential Applications in Nanoscale Electronics Technology. Microscopy and Microanalysis, 2002, 8, 58-63.	0.4	22
93	Highly efficient, high speed vertical photodiodes based on few-layer MoS ₂ . 2D Materials, 2017, 4, 015004.	4.4	22
94	Selective destruction of individual single walled carbon nanotubes by laser irradiation. Carbon, 2009, 47, 1292-1296.	10.3	20
95	Charge neutral MoS ₂ field effect transistors through oxygen plasma treatment. Journal of Applied Physics, 2016, 120, .	2.5	20
96	In Situ Investigation of Ultrafast Dynamics of Hot Electron-Driven Photocatalysis in Plasmon-Resonant Grating Structures. Journal of the American Chemical Society, 2022, 144, 3517-3526.	13.7	20
97	Nanostructured Silicon Photocathodes for Solar Water Splitting Patterned by the Self-Assembly of Lamellar Block Copolymers. ACS Applied Materials & Interfaces, 2015, 7, 26043-26049.	8.0	19
98	Confined Liquid-Phase Growth of Crystalline Compound Semiconductors on Any Substrate. ACS Nano, 2018, 12, 5158-5167.	14.6	19
99	Mid-wave and Long-Wave Infrared Linear Dichroism in a Hexagonal Perovskite Chalcogenide. Chemistry of Materials, 2018, 30, 4897-4901.	6.7	19
100	Imaging interfacial electrical transport in graphene–MoS ₂ heterostructures with electron-beam-induced-currents. Applied Physics Letters, 2015, 107, 223104.	3.3	18
101	Effects of Surface Passivation on Twin-Free GaAs Nanosheets. ACS Nano, 2015, 9, 1336-1340.	14.6	18
102	Cross-plane Thermoelectric and Thermionic Transport across Au/h-BN/Graphene Heterostructures. Scientific Reports, 2017, 7, 14148.	3.3	18
103	Ultrafast Dynamics of Hot Electrons in Nanostructures: Distinguishing the Influence on Interband and Plasmon Resonances. ACS Photonics, 2019, 6, 2295-2302.	6.6	18
104	Carbon-doped GaAs single junction solar microcells grown in multilayer epitaxial assemblies. Applied Physics Letters, 2013, 102, 253902.	3.3	17
105	Enhanced Fabry-Perot resonance in GaAs nanowires through local field enhancement and surface passivation. Nano Research, 2014, 7, 1146-1153.	10.4	17
106	Effects of basal-plane thermal conductivity and interface thermal conductance on the hot spot temperature in graphene electronic devices. Applied Physics Letters, 2017, 110, 073104.	3.3	17
107	Hot electron-driven photocatalysis and transient absorption spectroscopy in plasmon resonant grating structures. Faraday Discussions, 2019, 214, 325-339.	3.2	17
108	Enhanced thermoelectric efficiency in topological insulator Bi ₂ Te ₃ nanoplates via atomic layer deposition-based surface passivation. Applied Physics Letters, 2018, 113, .	3.3	16

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109	Cell kinase activity assay based on surface enhanced Raman spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2009, 73, 226-230.	3.9	15
110	A Comparison of Photocurrent Mechanisms in Quasi-Metallic and Semiconducting Carbon Nanotube pn-junctions. <i>ACS Nano</i> , 2015, 9, 11551-11556.	14.6	15
111	Sensing local pH and ion concentration at graphene electrode surfaces using <i>in situ</i> Raman spectroscopy. <i>Nanoscale</i> , 2018, 10, 2398-2403.	5.6	15
112	High Quantum Efficiency Hot Electron Electrochemistry. <i>Nano Letters</i> , 2019, 19, 6227-6234.	9.1	15
113	Carrier dynamics and doping profiles in GaAs nanosheets. <i>Nano Research</i> , 2014, 7, 163-170.	10.4	14
114	Study of the Plasmon Energy Transfer Processes in Dye Sensitized Solar Cells. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-6.	2.7	14
115	Plasmon resonant amplification of hot electron-driven photocatalysis. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	14
116	Iterative optimization of plasmon resonant nanostructures. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	13
117	Zener Tunneling and Photocurrent Generation in Quasi-Metallic Carbon Nanotube pn-Devices. <i>Nano Letters</i> , 2013, 13, 5129-5134.	9.1	13
118	Plasmonic mode mixing in nanoparticle dimers with nm-separations via substrate-mediated coupling. <i>Nano Research</i> , 2014, 7, 1344-1354.	10.4	13
119	Photocurrent spectroscopy of exciton and free particle optical transitions in suspended carbon nanotube pn-junctions. <i>Applied Physics Letters</i> , 2015, 107, 053107.	3.3	13
120	Enhanced Cross-Plane Thermoelectric Transport of Rotationally Disordered SnSe ₂ via Se-Vapor Annealing. <i>Nano Letters</i> , 2018, 18, 6876-6881.	9.1	13
121	Rapid prototyping of three-dimensional microstructures from multiwalled carbon nanotubes. <i>Applied Physics Letters</i> , 2007, 91, 093121.	3.3	12
122	Strong Circularly Polarized Photoluminescence from Multilayer MoS ₂ Through Plasma Driven Direct-Gap Transition. <i>ACS Photonics</i> , 2016, 3, 310-314.	6.6	12
123	Hot Electron Driven Photocatalysis on Plasmon-Resonant Grating Nanostructures. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 17459-17465.	8.0	12
124	Tunable Resonant Raman Scattering From Singly Resonant Single Wall Carbon Nanotubes. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2006, 12, 1083-1090.	2.9	11
125	Scaling of exciton binding energy with external dielectric function in carbon nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 2375-2379.	2.7	11
126	Effect of nanotube-nanotube coupling on the radial breathing mode of carbon nanotubes. <i>Physical Review B</i> , 2008, 78, .	3.2	10

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127	Competing Photocurrent Mechanisms in Quasi-Metallic Carbon Nanotube $p-n$ Devices. <i>Small</i> , 2015, 11, 3119-3123.	10.0	10
128	Resonant micro-Raman spectroscopy of aligned single-walled carbon nanotubes on a-plane sapphire. <i>Applied Physics Letters</i> , 2008, 93, 123112.	3.3	9
129	Optical Properties of Carbon Nanotubes Under Axial Strain. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 122-130.	0.9	9
130	Nonideal Diode Behavior and Bandgap Renormalization in Carbon Nanotube $p-n$ Junctions. <i>IEEE Nanotechnology Magazine</i> , 2014, 13, 41-45.	2.0	9
131	Electrical Transport and Channel Length Modulation in Semiconducting Carbon Nanotube Field Effect Transistors. <i>IEEE Nanotechnology Magazine</i> , 2014, 13, 176-181.	2.0	9
132	Plasmon resonant amplification of a hot electron-driven photodiode. <i>Nano Research</i> , 2018, 11, 2310-2314.	10.4	9
133	Measuring nanoscale thermal gradients in suspended MoS ₂ with STEM-EELS. <i>Applied Physics Letters</i> , 2019, 115, .	3.3	9
134	New materials for hot electron generation: general discussion. <i>Faraday Discussions</i> , 2019, 214, 365-386.	3.2	9
135	A Review of Diverse Academic Research in Nanosecond Pulsed Power and Plasma Science. <i>IEEE Transactions on Plasma Science</i> , 2020, 48, 742-748.	1.3	9
136	Nanofabrication Using Self-Assembled Alumina Templates. <i>Materials Research Society Symposia Proceedings</i> , 2000, 636, 471.	0.1	8
137	Single Event Effects in Carbon Nanotube-Based Field Effect Transistors Under Energetic Particle Radiation. <i>IEEE Transactions on Nuclear Science</i> , 2014, 61, 2839-2846.	2.0	8
138	Broadband terahertz modulation in electrostatically-doped artificial trilayer graphene. <i>Nanoscale</i> , 2017, 9, 1721-1726.	5.6	8
139	Demonstration of enhanced carrier transport, charge separation, and long-term stability for photocatalytic water splitting by a rapid hot pressing process. <i>Journal of Materials Chemistry A</i> , 2017, 5, 10687-10695.	10.3	8
140	Monitoring Reaction Intermediates in Plasma-Driven SO ₂ , NO, and NO ₂ Remediation Chemistry Using In Situ SERS Spectroscopy. <i>Analytical Chemistry</i> , 2021, 93, 6421-6427.	6.5	8
141	Observation of Asymmetric Nanoscale Optical Cavity in GaAs Nanosheets. <i>ACS Photonics</i> , 2015, 2, 1124-1128.	6.6	7
142	Enhanced photoluminescence in air-suspended carbon nanotubes by oxygen doping. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	7
143	Measuring Local Electric Fields and Local Charge Densities at Electrode Surfaces Using Graphene-Enhanced Raman Spectroscopy (GERS)-Based Stark-Shifts. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 36252-36258.	8.0	7
144	Effects of Proton Radiation-Induced Defects on Optoelectronic Properties of MoS ₂ . <i>IEEE Transactions on Nuclear Science</i> , 2019, 66, 413-419.	2.0	7

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145	Plasma-enhanced NO _x remediation using nanosecond pulsed discharges in a water aerosol matrix. Fuel Processing Technology, 2020, 208, 106521.	7.2	7
146	Stacking Independence and Resonant Interlayer Excitation of Monolayer WSe ₂ /MoSe ₂ Heterostructures for Photocatalytic Energy Conversion. ACS Applied Nano Materials, 2020, 3, 1175-1181.	5.0	7
147	Nanoparticle-Enhanced Plasma Discharge Using Nanosecond High-Voltage Pulses. Journal of Physical Chemistry C, 2020, 124, 7487-7491.	3.1	7
148	CO ₂ Reduction to Higher Hydrocarbons by Plasma Discharge in Carbonated Water. ACS Energy Letters, 2021, 6, 3924-3930.	17.4	7
149	Independent tuning of work function and field enhancement factor in hybrid lanthanum hexaboride-graphene-silicon field emitters. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2017, 35, 062202.	1.2	6
150	First results on transient plasma-based remediation of nanoscale particulate matter in restaurant smoke emissions. Environmental Research, 2019, 178, 108635.	7.5	6
151	Enhanced Low-Temperature Thermoelectric Performance in (PbSe) _{1+δ} (VSe ₂) ₁ Heterostructures due to Highly Correlated Electrons in Charge Density Waves. Nano Letters, 2020, 20, 8008-8014.	9.1	6
152	Tunable Onset of Hydrogen Evolution in Graphene with Hot Electrons. Nano Letters, 2020, 20, 1791-1799.	9.1	6
153	Enhanced Plasma Generation from Metal Nanostructures via Photoexcited Hot Electrons. Journal of Physical Chemistry C, 2021, 125, 6800-6804.	3.1	6
154	Nanoscale TiO ₂ Protection Layer Enhances the Built-In Field and Charge Separation Performance of GaP Photoelectrodes. Nano Letters, 2021, 21, 8017-8024.	9.1	6
155	4-Point Resistance Measurements of Individual Bi Nanowires. Materials Research Society Symposia Proceedings, 2001, 635, C5.7.1.	0.1	5
156	Memristive Behavior Observed in a Defected Single-Walled Carbon Nanotube. IEEE Nanotechnology Magazine, 2011, 10, 582-586.	2.0	5
157	Tailoring the crystal structure of individual silicon nanowires by polarized laser annealing. Nanotechnology, 2011, 22, 305709.	2.6	5
158	Evidence for structural phase transitions and large effective band gaps in quasi-metallic ultra-clean suspended carbon nanotubes. Nano Research, 2013, 6, 736-744.	10.4	5
159	Drude Theory—Free Carrier Contribution to the Optical Properties. Graduate Texts in Physics, 2018, , 329-344.	0.2	5
160	Transient plasma-enhanced remediation of nanoscale particulate matter in restaurant smoke emissions via electrostatic precipitation. Particuology, 2021, 55, 43-47.	3.6	5
161	Microwave properties of suspended single-walled carbon nanotubes with a field-effect transistor configuration. , 2011, , .		4
162	Pronounced electron-phonon interactions in ultraclean suspended carbon nanotubes. Physical Review B, 2012, 86, .	3.2	4

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163	Avalanche Photoemission in Suspended Carbon Nanotubes: Light without Heat. ACS Photonics, 2017, 4, 2706-2710.	6.6	4
164	Monitoring Local Electric Fields using Stark Shifts on Naphthyl Nitrile-Functionalized Silicon Photoelectrodes. Journal of Physical Chemistry C, 2020, 124, 17000-17005.	3.1	4
165	Hot Electron Plasmon-Resonant Grating Structures for Enhanced Photochemistry: A Theoretical Study. Crystals, 2021, 11, 118.	2.2	4
166	Top-down lithographic method for inducing strain in carbon nanotubes. Journal of Applied Physics, 2009, 106, 014306.	2.5	3
167	Low Temperature Growth of Crystalline Semiconductors on Nonepitaxial Substrates. Advanced Materials Interfaces, 2020, 7, 1902191.	3.7	3
168	Increasing the Hot-Electron Driven Hydrogen Evolution Reaction Rate on a Metal-Free Graphene Electrode. Advanced Materials Interfaces, 2021, 8, 2001706.	3.7	3
169	Au Nanoparticle Enhancement of Plasma-Driven Methane Conversion into Higher Order Hydrocarbons via Hot Electrons. ACS Applied Nano Materials, 2020, 3, 12388-12393.	5.0	3
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