Hyeonsik Cheong

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

 233
 10,795
 56
 98

 papers
 citations
 h-index
 g-index

 256
 12,390
 6.4
 6.31

 ext. papers
 ext. citations
 avg, IF
 L-index

#	Paper	IF	Citations
233	Multiferroic-Enabled Magnetic-Excitons in 2D Quantum-Entangled Van der Waals Antiferromagnet Nil 2 (Adv. Mater. 10/2022). <i>Advanced Materials</i> , 2022 , 34, 2270080	24	
232	Multiferroic Enabled Magnetic-exciton in 2D Quantum Entangled van der Waals Antiferromagnet Nil <i>Advanced Materials</i> , 2021 , e2109144	24	1
231	Selective Growth and Robust Valley Polarization of Bilayer 3-MoS. <i>ACS Applied Materials & amp; Interfaces</i> , 2021 , 13, 57588-57596	9.5	2
230	Unidirectional Alignment of AgCN Microwires on Distorted Transition Metal Dichalcogenide Crystals. <i>ACS Applied Materials & amp; Interfaces</i> , 2021 , 13, 8727-8735	9.5	O
229	Ultrafast Carrier-Lattice Interactions and Interlayer Modulations of BiSe by X-ray Free-Electron Laser Diffraction. <i>Nano Letters</i> , 2021 , 21, 8554-8562	11.5	2
228	Atomic-layer-confined multiple quantum wells enabled by monolithic bandgap engineering of transition metal dichalcogenides. <i>Science Advances</i> , 2021 , 7,	14.3	2
227	EGeSe: A New Hexagonal Polymorph from Group IV-VI Monochalcogenides. <i>Nano Letters</i> , 2021 , 21, 4305	5-4B\$3	11
226	Interlayer interaction in 2H-MoTe2/hBN heterostructures. 2D Materials, 2021, 8, 045004	5.9	O
225	Thickness dependence of antiferromagnetic phase transition in Heisenberg-type MnPS3. <i>Current Applied Physics</i> , 2021 , 21, 1-5	2.6	6
224	Design of 2D Layered Catalyst by Coherent Heteroepitaxial Conversion for Robust Hydrogen Generation. <i>Advanced Functional Materials</i> , 2021 , 31, 2005449	15.6	4
223	Structural Phase Transition and Interlayer Coupling in Few-Layer 1TNand T MoTe. <i>ACS Nano</i> , 2021 , 15, 2962-2970	16.7	14
222	High-Valent Iodoplumbate-Rich Perovskite Precursor Solution Solar Illumination for Reproducible Power Conversion Efficiency. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 1676-1682	6.4	4
221	On the Origin of Room-Temperature Amplified Spontaneous Emission in CsPbBr3 Single Crystals. <i>Chemistry of Materials</i> , 2021 , 33, 7185-7193	9.6	2
220	Visualizing Orbital Content of Electronic Bands in Anisotropic 2D Semiconducting ReSe. <i>ACS Nano</i> , 2020 , 14, 7880-7891	16.7	10
219	Polytypism in few-layer gallium selenide. <i>Nanoscale</i> , 2020 , 12, 8563-8573	7.7	11
218	Effects of Interlayer Coupling and Band Offset on Second Harmonic Generation in Vertical MoS/MoSSe Structures. <i>ACS Nano</i> , 2020 , 14, 4366-4373	16.7	9
217	Wafer-scale production of patterned transition metal ditelluride layers for two-dimensional metalBemiconductor contacts at the SchottkyMott limit. <i>Nature Electronics</i> , 2020 , 3, 207-215	28.4	38

216	Spin-phonon coupling in epitaxial SrRuO heterostructures. <i>Nanoscale</i> , 2020 , 12, 13926-13932	7.7	8
215	Implementation of Na diffusion layer at Cu2ZnSnSe4/Mo interface for flexible thin film solar cell fabricated on Ti foil by solid state selenization. <i>Current Applied Physics</i> , 2020 , 20, 967-972	2.6	1
214	Randomly Hopping Majorana Fermions in the Diluted Kitaev System Ru_{0.8}Ir_{0.2}Cl_{3}. <i>Physical Review Letters</i> , 2020 , 124, 047204	7.4	8
213	Facile fabrication of sensitive surface enhanced Raman scattering substrate based on CuO/Ag core/shell nanowires. <i>Applied Surface Science</i> , 2020 , 509, 145325	6.7	12
212	Universal Oriented van der Waals Epitaxy of 1D Cyanide Chains on Hexagonal 2D Crystals. <i>Advanced Science</i> , 2020 , 7, 1900757	13.6	6
211	Complete determination of the crystallographic orientation of ReX2 (X = S, Se) by polarized Raman spectroscopy. <i>Nanoscale Horizons</i> , 2020 , 5, 308-315	10.8	14
210	Achieving Reproducible and High-Efficiency (>21%) Perovskite Solar Cells with a Presynthesized FAPbI3 Powder. <i>ACS Energy Letters</i> , 2020 , 5, 360-366	20.1	81
209	Coherent many-body exciton in van der Waals antiferromagnet NiPS. <i>Nature</i> , 2020 , 583, 785-789	50.4	49
208	Optical phonons of SnSeS layered semiconductor alloys. <i>Scientific Reports</i> , 2020 , 10, 11761	4.9	8
207	Polarized Raman spectroscopy for studying two-dimensional materials. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 343001	1.8	15
206	Structural configurations and Raman spectra of carbon nanoscrolls. <i>Nanotechnology</i> , 2020 , 31, 315707	3.4	2
205	Suppression of magnetic ordering in XXZ-type antiferromagnetic monolayer NiPS. <i>Nature Communications</i> , 2019 , 10, 345	17.4	136
204	Resonant Raman Spectroscopy of Two Dimensional Materials Beyond Graphene. <i>Springer Series in Materials Science</i> , 2019 , 185-202	0.9	1
203	Antiferromagnetic ordering in van der Waals 2D magnetic material MnPS 3 probed by Raman spectroscopy. <i>2D Materials</i> , 2019 , 6, 041001	5.9	56
202	Electrically Robust Single-Crystalline WTe Nanobelts for Nanoscale Electrical Interconnects. <i>Advanced Science</i> , 2019 , 6, 1801370	13.6	10
201	Metallic Transition-Metal Chalcogenides: Electrically Robust Single-Crystalline WTe2 Nanobelts for Nanoscale Electrical Interconnects (Adv. Sci. 3/2019). <i>Advanced Science</i> , 2019 , 6, 1970017	13.6	1
200	Perovskite Cluster-Containing Solution for Scalable D-Bar Coating toward High-Throughput Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2019 , 4, 1189-1195	20.1	88
199	Raman spectroscopy of two-dimensional magnetic van der Waals materials. <i>Nanotechnology</i> , 2019 , 30, 452001	3.4	11

198	Advanced Multifunctional Field Effect Devices Using Common Gate for Both 2D Transition-Metal Dichalcogenide and InGaZnO Channels. <i>Advanced Electronic Materials</i> , 2019 , 5, 1900730	6.4	5
197	Effects of S and Se contents on the physical and photovoltaic properties of Cu2ZnSn(SX, Se1X)4 thin films: achieving a PCE of 9.47%. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 22986-22995	13	9
196	Twist-Angle-Dependent Optoelectronics in a Few-Layer Transition-Metal Dichalcogenide Heterostructure. <i>ACS Applied Materials & Amp; Interfaces</i> , 2019 , 11, 2470-2478	9.5	15
195	Davydov splitting and polytypism in few-layer MoS 2. 2D Materials, 2019 , 6, 015004	5.9	17
194	Resonance Raman effects in transition metal dichalcogenides. <i>Journal of Raman Spectroscopy</i> , 2018 , 49, 66-75	2.3	27
193	Band Tail Engineering in Kesterite CuZnSn(S,Se) Thin-Film Solar Cells with 11.8% Efficiency. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 4555-4561	6.4	35
192	Low-Frequency Raman Spectroscopy of Few-Layer 2H-SnS. Scientific Reports, 2018, 8, 10194	4.9	24
191	Single-Crystalline Nanobelts Composed of Transition Metal Ditellurides. <i>Advanced Materials</i> , 2018 , 30, e1707260	24	15
190	Structural, optical and electrical impacts of marcasite in pyrite thin films. <i>Solar Energy</i> , 2018 , 159, 930-9	936 .8	16
189	Experimental investigation of surface morphology of a chemical vapor deposition-grown graphene monolayer mediating with a gap-plasmonic system and the related ripple shape study. <i>Journal of Applied Physics</i> , 2018 , 124, 223101	2.5	5
188	Variation of photoluminescence spectral line shape of monolayer WS 2. <i>Current Applied Physics</i> , 2018 , 18, 941-945	2.6	9
187	Probing Evolution of Twist-Angle-Dependent Interlayer Excitons in MoSe/WSe van der Waals Heterostructures. <i>ACS Nano</i> , 2017 , 11, 4041-4050	16.7	157
186	Precursor designs for Cu2ZnSn(S,Se)4 thin-film solar cells. <i>Nano Energy</i> , 2017 , 35, 52-61	17.1	23
185	Single-step sulfo-selenization method for achieving low open circuit voltage deficit with band gap front-graded Cu2ZnSn(S,Se)4 thin films. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 161, 162-169	6.4	46
184	Substantial improvements of long-term stability in encapsulation-free WS 2 using highly interacting graphene substrate. <i>2D Materials</i> , 2017 , 4, 011007	5.9	17
183	Control of Zn Content and Influence on Cu2ZnSnSe4 Thin-Film Solar Cells Fabricated by Coevaporation. <i>Journal of Nanoscience and Nanotechnology</i> , 2017 , 17, 8236-8241	1.3	O
182	Excitonic resonance effects and Davydov splitting in circularly polarized Raman spectra of few-layer WSe 2. <i>2D Materials</i> , 2017 , 4, 045002	5.9	21
181	6.5% Certified Efficiency Sb2Se3 Solar Cells Using PbS Colloidal Quantum Dot Film as Hole-Transporting Layer. <i>ACS Energy Letters</i> , 2017 , 2, 2125-2132	20.1	137

180	Strain-shear coupling in bilayer MoS. <i>Nature Communications</i> , 2017 , 8, 1370	17.4	43
179	Thickness-Dependent Phonon Renormalization and Enhanced Raman Scattering in Ultrathin Silicon Nanomembranes. <i>Nano Letters</i> , 2017 , 17, 7744-7750	11.5	9
178	Excitation energy dependence of Raman spectra of few-layer WS2. FlatChem, 2017, 3, 64-70	5.1	29
177	Tailoring the defects and carrier density for beyond 10% efficient CZTSe thin film solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 159, 447-455	6.4	97
176	Comparison of chalcopyrite and kesterite thin-film solar cells. <i>Journal of Industrial and Engineering Chemistry</i> , 2017 , 45, 78-84	6.3	16
175	Structural and Optical Properties of Cu2ZnSnS4 Films Obtained by Pulsed Spray Pyrolysis. <i>Journal of Nano- and Electronic Physics</i> , 2017 , 9, 01028-1-01028-7	1.5	5
174	Determination of the thickness and orientation of few-layer tungsten ditelluride using polarized Raman spectroscopy. <i>2D Materials</i> , 2016 , 3, 034004	5.9	19
173	Raman Spectroscopic Study on Alkyl Chain Conformation in 1-Butyl-3-methylimidazolium Ionic Liquids and their Aqueous Mixtures. <i>ChemPhysChem</i> , 2016 , 17, 3040-3046	3.2	28
172	Ising-Type Magnetic Ordering in Atomically Thin FePS. <i>Nano Letters</i> , 2016 , 16, 7433-7438	11.5	412
171	Cu2ZnSnS4 solar cells with a single spin-coated absorber layer prepared via a simple sol g el route. <i>International Journal of Energy Research</i> , 2016 , 40, 662-669	4.5	19
170	Photoheat-induced Schottky nanojunction and indirect Mott transition in VOIIphotocurrent analysis. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 085602	1.8	8
169	Exploring the SERS background using a sandwiched graphene monolayer with gap-plasmon junctions. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 105302	3	7
168	Effect of Cu/(Zn+Sn) ratio on the ZnSe position and performance of CZTSe solar cells. <i>Journal of Alloys and Compounds</i> , 2016 , 665, 304-310	5.7	6
167	Raman Signatures of Polytypism in Molybdenum Disulfide. <i>ACS Nano</i> , 2016 , 10, 1948-53	16.7	75
166	Anisotropic phonon softening of uniaxially strained bilayer graphene. Carbon, 2016, 103, 473-479	10.4	2
165	Solar conversion efficiency and distribution of ZnS secondary phase in Cu2ZnSnS4 solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 149, 226-231	6.4	32
164	Photocurrent generation at ABA/ABC lateral junction in tri-layer graphene photodetector. <i>Carbon</i> , 2016 , 96, 454-458	10.4	11
163	Surface Morphology, Structural and Optical Properties of MgO Films Obtained by Spray Pyrolysis Technique. <i>Acta Physica Polonica A</i> , 2016 , 130, 805-810	0.6	17

Local transport properties of coated conductors by laser-scan imaging methods. *Progress in Superconductivity and Cryogenics (PSAC)*, **2016**, 18, 1-4

161	Investigation of optical properties of magnesium oxide films obtained by spray pyrolysis technique 2016 ,		2
160	The enhanced low resistance contacts and boosted mobility in two-dimensional p-type WSe2 transistors through Ar+ ion-beam generated surface defects. <i>AIP Advances</i> , 2016 , 6, 105307	1.5	19
159	Controlling the ripple density and heights: a new way to improve the electrical performance of CVD-grown graphene. <i>Nanoscale</i> , 2016 , 8, 9822-7	7.7	15
158	A band-gap-graded CZTSSe solar cell with 12.3% efficiency. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 10151-10158	13	198
157	Davydov Splitting and Excitonic Resonance Effects in Raman Spectra of Few-Layer MoSe2. <i>ACS Nano</i> , 2016 , 10, 8113-20	16.7	73
156	Influence of substrate temperature on the structural and optical properties of crystalline ZnO films obtained by pulsed spray pyrolysis. <i>Surface and Interface Analysis</i> , 2015 , 47, 601-606	1.5	22
155	Triple-band perfect metamaterial absorption, based on single cut-wire bar. <i>Applied Physics Letters</i> , 2015 , 106, 071105	3.4	42
154	Bright visible light emission from graphene. <i>Nature Nanotechnology</i> , 2015 , 10, 676-81	28.7	226
153	Engineering Optical and Electronic Properties of WS2 by Varying the Number of Layers. <i>ACS Nano</i> , 2015 , 9, 6854-60	16.7	73
152	Effects of a pre-annealing treatment (PAT) on Cu2ZnSn(S,Se)4 thin films prepared by rapid thermal processing (RTP) selenization. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 143, 218-225	6.4	18
151	Growth and Device Characteristics of CZTSSe Thin-Film Solar Cells with 8.03% Efficiency. <i>Chemistry of Materials</i> , 2015 , 27, 5180-5188	9.6	49
150	Ultra-large current transport in thick SmBa2Cu3O7⊠ films grown by reactive co-evaporation. <i>Physica C: Superconductivity and Its Applications</i> , 2015 , 513, 29-34	1.3	7
149	Effects of the compositional ratio distribution with sulfurization temperatures in the absorber layer on the defect and surface electrical characteristics of Cu2ZnSnS4 solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , 2015 , 23, 1771-1784	6.8	55
148	Influence of deposition conditions on morphological, structural, optical and electro-physical properties of ZnSe films obtained by close-spaced vacuum sublimation. <i>Materials Science in Semiconductor Processing</i> , 2015 , 36, 13-19	4.3	23
147	Anisotropic behavior of hydrogen in the formation of pentagonal graphene domains. <i>Carbon</i> , 2015 , 89, 242-248	10.4	16
146	Multi-band near-perfect absorption via the resonance excitation of dark meta-molecules. <i>Optics Communications</i> , 2015 , 356, 362-367	2	12
145	Anomalous polarization dependence of Raman scattering and crystallographic orientation of black phosphorus. <i>Nanoscale</i> , 2015 , 7, 18708-15	7.7	139

(2014-2015)

144	Repair of Ischemic Injury by Pluripotent Stem Cell Based Cell Therapy without Teratoma through Selective Photosensitivity. <i>Stem Cell Reports</i> , 2015 , 5, 1067-1080	8	26
143	Multi-plasmon-induced perfect absorption at the third resonance in metamaterials. <i>Journal of Optics (United Kingdom)</i> , 2015 , 17, 125101	1.7	9
142	Saturable optical absorption in MoS2 nano-sheet optically deposited on the optical fiber facet. <i>Optics Communications</i> , 2015 , 335, 224-230	2	34
141	Solar Cells: A Temporary Barrier Effect of the Alloy Layer During Selenization: Tailoring the Thickness of MoSe2 for Efficient Cu2ZnSnSe4 Solar Cells (Adv. Energy Mater. 9/2015). <i>Advanced Energy Materials</i> , 2015 , 5, n/a-n/a	21.8	2
140	Excitation energy dependent Raman spectrum of MoSe2. Scientific Reports, 2015, 5, 17113	4.9	90
139	Substructural investigations, Raman, and FTIR spectroscopies of nanocrystalline ZnO films deposited by pulsed spray pyrolysis. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015 , 212, 2915-2921	1.6	26
138	Resonant Raman and photoluminescence spectra of suspended molybdenum disulfide. <i>2D Materials</i> , 2015 , 2, 044003	5.9	27
137	Anomalous excitonic resonance Raman effects in few-layered MoS2. <i>Nanoscale</i> , 2015 , 7, 3229-36	7.7	103
136	Influence of sulfate residue on Cu2ZnSnS4 thin films prepared by direct solution method. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 136, 113-119	6.4	12
135	A Temporary Barrier Effect of the Alloy Layer During Selenization: Tailoring the Thickness of MoSe2 for Efficient Cu2ZnSnSe4 Solar Cells. <i>Advanced Energy Materials</i> , 2015 , 5, 1402178	21.8	111
134	Raman Spectroscopic Studies on Two-Dimensional Materials. <i>Applied Microscopy</i> , 2015 , 45, 126-130	1.1	24
133	Excitation energy dependent Raman signatures of ABA- and ABC-stacked few-layer graphene. <i>Scientific Reports</i> , 2014 , 4, 4630	4.9	61
132	Composition variations in Cu2ZnSnSe4 thin films analyzed by X-ray diffraction, energy dispersive X-ray spectroscopy, particle induced X-ray emission, photoluminescence, and Raman spectroscopy. <i>Thin Solid Films</i> , 2014 , 562, 109-113	2.2	20
131	Energy transfer in dye molecule-containing zeolite monolayers. <i>Microporous and Mesoporous Materials</i> , 2014 , 192, 89-94	5.3	9
130	Polarization dependence of double resonant Raman scattering band in bilayer graphene. <i>Carbon</i> , 2014 , 72, 257-263	10.4	17
129	Raman investigation on thin and thick CdTe films obtained by close spaced vacuum sublimation technique. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2014 , 11, 1515-1518		5
128	Influence of precursor sulfur content on film formation and the properties of sulfurized Cu2ZnSnS4 thin films for solar cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014 , 211, 946-951	1.6	20
127	Effects of Hydrogen Partial Pressure in the Annealing Process on Graphene Growth. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 3574-3580	3.8	32

126	Effects of polycrystallinity in nano patterning by ion-beam sputtering. <i>Journal of Applied Physics</i> , 2014 , 116, 024307	2.5	4
125	Solution-processed Cu2ZnSnS4 absorbers prepared by appropriate inclusion and removal of thiourea for thin film solar cells. <i>RSC Advances</i> , 2014 , 4, 9118-9125	3.7	39
124	Flexible and elastic metamaterial absorber for low frequency, based on small-size unit cell. <i>Applied Physics Letters</i> , 2014 , 105, 041902	3.4	100
123	Large scale production of highly conductive reduced graphene oxide sheets by a solvent-free low temperature reduction. <i>Carbon</i> , 2014 , 69, 327-335	10.4	42
122	Young M modulus of ZnO microwires determined by various mechanical measurement methods. <i>Current Applied Physics</i> , 2014 , 14, 166-170	2.6	13
121	Polarization-independent light emission enhancement of ZnO/Ag nanograting via surface plasmon polariton excitation and cavity resonance. <i>ACS Applied Materials & Description of English Agency (Note: Acs Applied Materials & Description of English (Note: Acs Applied</i>	9.5	9
120	Optical and structural properties of Al-ZnO nanocomposites. <i>Journal of Nanoscience and Nanotechnology</i> , 2014 , 14, 3661-6	1.3	6
119	Electrical control of nanoscale functionalization in graphene by the scanning probe technique. <i>NPG Asia Materials</i> , 2014 , 6, e102-e102	10.3	25
118	Polarized Raman spectroscopy of Cu-poor and Zn-rich single-crystal Cu2ZnSnSe4. <i>Applied Physics Letters</i> , 2014 , 105, 173903	3.4	19
117	Symmetric metamaterials based on flower-shaped structure. <i>Materials Chemistry and Physics</i> , 2013 , 141, 535-539	4.4	5
116	Effects of substrates on structural and optical properties of Cu-poor CuGaSe2 thin films prepared by in-situ co-evaporation. <i>Current Applied Physics</i> , 2013 , 13, 907-912	2.6	7
115	Polarization dependence of the photocurrent due to an anisotropic electron-photon interaction in Pd-graphene-Pd devices. <i>Journal of the Korean Physical Society</i> , 2013 , 63, 1019-1022	0.6	1
114	Cu2ZnSnSe4 thin film solar cells based on a single-step co-evaporation process. <i>Thin Solid Films</i> , 2013 , 535, 52-56	2.2	21
113	Crystallographic orientation of early domains in CVD graphene studied by Raman spectroscopy. <i>Chemical Physics Letters</i> , 2013 , 568-569, 146-150	2.5	11
112	Influence of growth process on optical properties of Cu(In1 IkGax)Se2 thin film solar cells. <i>Thin Solid Films</i> , 2013 , 535, 118-121	2.2	2
111	Recombination in Cu(In,Ga)Se2 thin-film solar cells containing ordered vacancy compound phases. <i>Thin Solid Films</i> , 2013 , 546, 358-361	2.2	14
110	Photoluminescent nanographitic/nitrogen-doped graphitic hollow shells as a potential candidate for biological applications. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 1229-1234	7.3	10
109	Fano resonance in Raman scattering of graphene. <i>Carbon</i> , 2013 , 61, 373-378	10.4	29

(2011-2013)

108	Polarization-insensitive and polarization-controlled dual-band absorption in metamaterials. <i>Applied Physics Letters</i> , 2013 , 102, 081122	3.4	83
107	Polarization-independent dual-band perfect absorber utilizing multiple magnetic resonances. <i>Optics Express</i> , 2013 , 21, 32484-90	3.3	73
106	Local current transport and surface potential of photovoltaic Cu(In,Ga)Se 2 thin films probed by multi-scale imaging methods. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , 2013 , 4, 015007	1.6	10
105	Between scylla and charybdis: hydrophobic graphene-guided water diffusion on hydrophilic substrates. <i>Scientific Reports</i> , 2013 , 3, 2309	4.9	53
104	Anisotropic mobility of small molecule-polymer blend channel in organic transistor: Characterization of channel materials and orientation. <i>Organic Electronics</i> , 2012 , 13, 1250-1254	3.5	21
103	Enhancement of the Raman scattering intensity in folded bilayer graphene. <i>Journal of the Korean Physical Society</i> , 2012 , 60, 1278-1281	0.6	4
102	Estimation of Young M modulus of graphene by Raman spectroscopy. <i>Nano Letters</i> , 2012 , 12, 4444-8	11.5	286
101	Aligned networks of cadmium sulfide nanowires for highly flexible photodetectors with improved photoconductive responses. <i>Journal of Materials Chemistry</i> , 2012 , 22, 2173-2179		77
100	Tunable dual-band perfect absorbers based on extraordinary optical transmission and Fabry-Perot cavity resonance. <i>Optics Express</i> , 2012 , 20, 24002-9	3.3	63
99	Polarization dependence of photocurrent in a metal-graphene-metal device. <i>Applied Physics Letters</i> , 2012 , 101, 073103	3.4	18
98	Characteristics of Cu(In,Ga)Se2 (CIGS) thin films deposited by a direct solution coating process. Journal of Alloys and Compounds, 2012 , 513, 68-74	5.7	78
97	Simplified perfect absorber structure. Computational Materials Science, 2012, 61, 243-247	3.2	14
96	Raman Spectroscopy for Characterization of Graphene 2012 , 191-214		5
95	One-step graphene coating of heteroepitaxial GaN films. <i>Nanotechnology</i> , 2012 , 23, 435603	3.4	28
94	Manipulation of electromagnetically-induced transparency in planar metamaterials based on phase coupling. <i>Journal of Applied Physics</i> , 2012 , 111, 073101	2.5	40
93	Synthesis and Characterization of Orthorhombic Sb2O4 Nanowire Prepared by Heating Sb2S3 Powder. <i>Electrochemical and Solid-State Letters</i> , 2012 , 15, K49		9
92	Friction anisotropy-driven domain imaging on exfoliated monolayer graphene. Science, 2011, 333, 607-	193.3	241
91	Negative thermal expansion coefficient of graphene measured by Raman spectroscopy. <i>Nano Letters</i> , 2011 , 11, 3227-31	11.5	703

90	Nanoscale lithography on monolayer graphene using hydrogenation and oxidation. <i>ACS Nano</i> , 2011 , 5, 6417-24	16.7	122
89	Growth and structural properties of pulsed laser-ablated CuInSe2 nanoparticles by pulsed-laser ablation and selenization process. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 8073-8076	5.7	5
88	Thermal conductivity of suspended pristine graphene measured by Raman spectroscopy. <i>Physical Review B</i> , 2011 , 83,	3.3	269
87	Optical Characterization of Cu2ZnSnSe4 grown by thermal co-evaporation 2011 ,		1
86	Optical characterization of Cu2ZnSnSe4 grown by thermal co-evaporation. <i>Thin Solid Films</i> , 2011 , 519, 7386-7389	2.2	63
85	Distribution Pattern of Length, Length Uniformity, and Density of TiO32IQuantum Wires in an ETS-10 Crystal Revealed by Laser-Scanning Confocal Polarized Micro-Raman Spectroscopy. Angewandte Chemie, 2011, 123, 8856-8860	3.6	4
84	Distribution pattern of length, length uniformity, and density of TiO3(2-) quantum wires in an ETS-10 crystal revealed by laser-scanning confocal polarized micro-Raman spectroscopy. Angewandte Chemie - International Edition, 2011, 50, 8697-701	16.4	10
83	Characterization of Co-Evaporated \${rm SmBa}_{2}{rm Cu}_{3}{rm O}_{7}\$ Coated Conductors by Polarized-Raman Scattering Spectroscopy. <i>IEEE Transactions on Applied Superconductivity</i> , 2011 , 21, 335	52 ^{1.8} 35.	5 ⁴
82	Strain-dependent splitting of the double-resonance Raman scattering band in graphene. <i>Physical Review Letters</i> , 2011 , 106, 155502	7.4	218
81	Preface to Special Topic: Plenary and Invited Papers from the 30th International Conference on the Physics of Semiconductors, Seoul, South Korea, 2010. <i>Journal of Applied Physics</i> , 2011 , 109, 102301	2.5	
80	Determination of Mechanical Properties of Single-Crystal CdS Nanowires from Dynamic Flexural Measurements of Nanowire Mechanical Resonators. <i>Applied Physics Express</i> , 2011 , 4, 065004	2.4	6
79	Temperature-controlled synthesis of In2Ge2O7nanowires and their photoluminescence properties. <i>Journal Physics D: Applied Physics</i> , 2011 , 44, 025502	3	6
78	Effects of seed layers on structural, morphological, and optical properties of ZnO nanorods. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 511-7	1.3	12
77	Optical Properties of Organic Dye Molecules Incorporated within Different Zeolitic Structures. Journal of the Korean Physical Society, 2011 , 58, 1035-1038	0.6	9
76	Photoluminescence and Nonlinear Optical Properties of Semiconductor Nanocomposites Consisting of ZnO Nanorods and CdS Nanodots. <i>Journal of the Korean Physical Society</i> , 2011 , 58, 1290-1	294	4
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