Hyeonsik Cheong

List of Publications by Citations

Source: https://exaly.com/author-pdf/3519328/hyeonsik-cheong-publications-by-citations.pdf

Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Negative thermal expansion coefficient of graphene measured by Raman spectroscopy. <i>Nano Letters</i> , 2011 , 11, 3227-31	11.5	703
232	Ising-Type Magnetic Ordering in Atomically Thin FePS. <i>Nano Letters</i> , 2016 , 16, 7433-7438	11.5	412
231	Size-Dependent Spectroscopy of InP Quantum Dots. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 4904-49	91324	342
230	Dye-Sensitized TiO2 Solar Cells: Structural and Photoelectrochemical Characterization of Nanocrystalline Electrodes Formed from the Hydrolysis of TiCl4. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 3308-3314	3.4	327
229	Estimation of Young M modulus of graphene by Raman spectroscopy. <i>Nano Letters</i> , 2012 , 12, 4444-8	11.5	286
228	Thermal conductivity of suspended pristine graphene measured by Raman spectroscopy. <i>Physical Review B</i> , 2011 , 83,	3.3	269
227	Determination of band gap energy (Eg) of Cu2ZnSnSe4 thin films: On the discrepancies of reported band gap values. <i>Applied Physics Letters</i> , 2010 , 97, 021905	3.4	256
226	Friction anisotropy-driven domain imaging on exfoliated monolayer graphene. Science, 2011, 333, 607-	193.3	241
225	Structures of ionic liquids with different anions studied by infrared vibration spectroscopy. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 4735-40	3.4	231
224	Bright visible light emission from graphene. <i>Nature Nanotechnology</i> , 2015 , 10, 676-81	28.7	226
223	Interference effect on Raman spectrum of graphene on SiO2/Si. Physical Review B, 2009, 80,	3.3	224
222	Strain-dependent splitting of the double-resonance Raman scattering band in graphene. <i>Physical Review Letters</i> , 2011 , 106, 155502	7.4	218
221	Raman spectroscopic studies of amorphous vanadium oxide thin films. <i>Solid State Ionics</i> , 2003 , 165, 111	-3,136	207
220	A band-gap-graded CZTSSe solar cell with 12.3% efficiency. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 10151-10158	13	198
219	Structural change of 1-butyl-3-methylimidazolium tetrafluoroborate + water mixtures studied by infrared vibrational spectroscopy. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 923-8	3.4	195
218	Electrochromic mechanism in a-WO3 I thin films. <i>Applied Physics Letters</i> , 1999 , 74, 242-244	3.4	172
217	Electrochromic coloration efficiency of a-WO3 thin films as a function of oxygen deficiency. <i>Applied Physics Letters</i> , 1999 , 75, 1541-1543	3.4	162

(2013-2009)

216	Variations in the Raman Spectrum as a Function of the Number of Graphene Layers. <i>Journal of the Korean Physical Society</i> , 2009 , 55, 1299-1303	0.6	160
215	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
214	Anomalous polarization dependence of Raman scattering and crystallographic orientation of black phosphorus. <i>Nanoscale</i> , 2015 , 7, 18708-15	7.7	139
213	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
212	Suppression of magnetic ordering in XXZ-type antiferromagnetic monolayer NiPS. <i>Nature Communications</i> , 2019 , 10, 345	17.4	136
211	Raman spectroscopic studies of electrochromic a-WO3. <i>Electrochimica Acta</i> , 1999 , 44, 3111-3115	6.7	129
210	Nanoscale lithography on monolayer graphene using hydrogenation and oxidation. <i>ACS Nano</i> , 2011 , 5, 6417-24	16.7	122
209	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
208	Ferroelectricity in highly ordered arrays of ultra-thin-walled Pb(Zr,Ti)O3 nanotubes composed of nanometer-sized perovskite crystallites. <i>Nano Letters</i> , 2008 , 8, 1813-8	11.5	108
207	Controlled selective growth of ZnO nanorod and microrod arrays on Si substrates by a wet chemical method. <i>Applied Physics Letters</i> , 2006 , 89, 163128	3.4	107
206	Anomalous excitonic resonance Raman effects in few-layered MoS2. <i>Nanoscale</i> , 2015 , 7, 3229-36	7.7	103
205	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
204	Alternating current impedance and Raman spectroscopic study on electrochromic a-WO3 films. <i>Applied Physics Letters</i> , 2000 , 76, 3908-3910	3.4	98
203	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
202	Size-dependent Raman study of InP quantum dots. <i>Applied Physics Letters</i> , 2003 , 82, 185-187	3.4	93
201	Excitation energy dependent Raman spectrum of MoSe2. Scientific Reports, 2015, 5, 17113	4.9	90
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	Polarization-insensitive and polarization-controlled dual-band absorption in metamaterials. <i>Applied Physics Letters</i> , 2013 , 102, 081122	3.4	83

198	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
197	Strong polarization dependence of double-resonant Raman intensities in graphene. <i>Nano Letters</i> , 2008 , 8, 4270-4	11.5	80
196	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
195	Raman spectroscopic studies of NiW oxide thin films. <i>Solid State Ionics</i> , 2001 , 140, 135-139	3.3	78
194	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
193	Raman spectroscopic studies of gasochromic a-WO3 thin films. <i>Electrochimica Acta</i> , 2001 , 46, 1995-1999	96. ₇	77
192	Raman Signatures of Polytypism in Molybdenum Disulfide. <i>ACS Nano</i> , 2016 , 10, 1948-53	16.7	75
191	Engineering Optical and Electronic Properties of WS2 by Varying the Number of Layers. <i>ACS Nano</i> , 2015 , 9, 6854-60	16.7	73
190	Polarization-independent dual-band perfect absorber utilizing multiple magnetic resonances. <i>Optics Express</i> , 2013 , 21, 32484-90	3.3	73
189	Microstructure study of amorphous vanadium oxide thin films using raman spectroscopy. <i>Journal of Applied Physics</i> , 2002 , 92, 1893-1897	2.5	73
188	Davydov Splitting and Excitonic Resonance Effects in Raman Spectra of Few-Layer MoSe2. <i>ACS Nano</i> , 2016 , 10, 8113-20	16.7	73
187	Effect of crystallinity on electrochromic mechanism of LixWO3 thin films. <i>Solid State Ionics</i> , 2003 , 156, 447-452	3.3	71
186	Gasochromic mechanism in a-WO3 thin films based on Raman spectroscopic studies. <i>Journal of Applied Physics</i> , 2000 , 88, 3076-3078	2.5	71
185	Facile monolayer assembly of fluorophore-containing zeolite rods in uniform orientations for anisotropic photoluminescence. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 5288-92	16.4	64
184	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
183	Optical characterization of Cu2ZnSnSe4 grown by thermal co-evaporation. <i>Thin Solid Films</i> , 2011 , 519, 7386-7389	2.2	63
182	Gamma -X mixing in GaAs/AlxGa1-xAs coupled double quantum wells under hydrostatic pressure. <i>Physical Review B</i> , 1993 , 47, 1991-1997	3.3	63
181	Spontaneous Lateral Composition Modulation in III-V Semiconductor Alloys. MRS Bulletin, 1997, 22, 38-	43.2	62

(2018-2014)

180	Excitation energy dependent Raman signatures of ABA- and ABC-stacked few-layer graphene. <i>Scientific Reports</i> , 2014 , 4, 4630	4.9	61	
179	Nitrogen-induced levels in GaAs1⊠Nx studied with resonant Raman scattering. <i>Physical Review B</i> , 2000 , 61, 13687-13690	3.3	58	
178	Stable Pd/V[sub 2]O[sub 5] Optical H[sub 2] Sensor. <i>Journal of the Electrochemical Society</i> , 2002 , 149, H76	3.9	57	
177	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	
176	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	
175	Between scylla and charybdis: hydrophobic graphene-guided water diffusion on hydrophilic substrates. <i>Scientific Reports</i> , 2013 , 3, 2309	4.9	53	
174	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	
173	Coherent many-body exciton in van der Waals antiferromagnet NiPS. <i>Nature</i> , 2020 , 583, 785-789	50.4	49	
172	Effects of spontaneous ordering on Raman spectra of GalnP2. <i>Physical Review B</i> , 1997 , 56, 1882-1887	3.3	47	
171	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	
170	Strain-shear coupling in bilayer MoS. <i>Nature Communications</i> , 2017 , 8, 1370	17.4	43	
169	Triple-band perfect metamaterial absorption, based on single cut-wire bar. <i>Applied Physics Letters</i> , 2015 , 106, 071105	3.4	42	
168	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	
167	Manipulation of electromagnetically-induced transparency in planar metamaterials based on phase coupling. <i>Journal of Applied Physics</i> , 2012 , 111, 073101	2.5	40	
166	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	
165	Photoluminescence up-conversion in GaAs/AlxGa1⊠As heterostructures. <i>Physical Review B</i> , 1998 , 58, R4254-R4257	3.3	39	
164	Wafer-scale production of patterned transition metal ditelluride layers for two-dimensional metal meta	28.4	38	
163	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	

162	Saturable optical absorption in MoS2 nano-sheet optically deposited on the optical fiber facet. <i>Optics Communications</i> , 2015 , 335, 224-230	2	34
161	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
160	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
159	Raman Spectra Study of K0.5Na0.5NbO3Ferroelectric Thin Films. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 095801	1.4	31
158	Pd B t alloy as a catalyst in gasochromic thin films for hydrogen sensors. <i>Solar Energy Materials and Solar Cells</i> , 2009 , 93, 2133-2137	6.4	30
157	Interface-induced conversion of infrared to visible light at semiconductor interfaces. <i>Physical Review B</i> , 1996 , 54, R5263-R5266	3.3	30
156	Excitation energy dependence of Raman spectra of few-layer WS2. FlatChem, 2017, 3, 64-70	5.1	29
155	Fano resonance in Raman scattering of graphene. <i>Carbon</i> , 2013 , 61, 373-378	10.4	29
154	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
153	One-step graphene coating of heteroepitaxial GaN films. <i>Nanotechnology</i> , 2012 , 23, 435603	3.4	28
152	Optical and microstructural studies of atomically flat ultrathin In-rich InGaNtaN multiple quantum wells. <i>Journal of Applied Physics</i> , 2008 , 103, 063509	2.5	28
151	In Situ Raman Spectroscopy of RuO[sub 2]?xH[sub 2]O. <i>Electrochemical and Solid-State Letters</i> , 2005 , 8, E39		28
150	The inert gases Ar, Xe, and He as cryogenic pressure media. <i>Review of Scientific Instruments</i> , 1990 , 61, 3904-3905	1.7	28
149	Resonance Raman effects in transition metal dichalcogenides. <i>Journal of Raman Spectroscopy</i> , 2018 , 49, 66-75	2.3	27
148	Resonant Raman and photoluminescence spectra of suspended molybdenum disulfide. <i>2D Materials</i> , 2015 , 2, 044003	5.9	27
147	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
146	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
145	Microstructure of femtosecond laser-induced grating in amorphous silicon. <i>Optics Express</i> , 2005 , 13, 64-	4 5. 53	26

144	Statistical distribution of the order parameter in spontaneously ordered Ga0.52In0.48P alloys. <i>Physical Review B</i> , 1998 , 57, R9400-R9403	3.3	26	
143	Hydrostatic pressure dependence of the photoluminescence of Si nanocrystals in SiO2. <i>Applied Physics Letters</i> , 1996 , 68, 87-89	3.4	26	
142	Electrical control of nanoscale functionalization in graphene by the scanning probe technique. <i>NPG Asia Materials</i> , 2014 , 6, e102-e102	10.3	25	
141	Room temperature near-ultraviolet emission from In-rich InGaNtaN multiple quantum wells. <i>Applied Physics Letters</i> , 2005 , 86, 192105	3.4	25	
140	Influence of microstructure on the chemical diffusion of lithium ions in amorphous lithiated tungsten oxide films. <i>Electrochimica Acta</i> , 2001 , 46, 3415-3419	6.7	25	
139	Low-Frequency Raman Spectroscopy of Few-Layer 2H-SnS. Scientific Reports, 2018, 8, 10194	4.9	24	
138	Raman Spectroscopic Studies on Two-Dimensional Materials. <i>Applied Microscopy</i> , 2015 , 45, 126-130	1.1	24	
137	Precursor designs for Cu2ZnSn(S,Se)4 thin-film solar cells. <i>Nano Energy</i> , 2017 , 35, 52-61	17.1	23	
136	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	
135	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	
134	Infrared signature of ion displacement in the noncollinear spin state of orthorhombic YMnO3. <i>Physical Review B</i> , 2006 , 74,	3.3	22	
133	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	
132	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	
131	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	
130	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	
129	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	
128	New insights into ETS-10 and titanate quantum wire: a comprehensive characterization. <i>Journal of the American Chemical Society</i> , 2009 , 131, 13080-92	16.4	20	
127	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	

126	Cu2ZnSnS4 solar cells with a single spin-coated absorber layer prepared via a simple solgel route. <i>International Journal of Energy Research</i> , 2016 , 40, 662-669	4.5	19
125	Polarized Raman spectroscopy of Cu-poor and Zn-rich single-crystal Cu2ZnSnSe4. <i>Applied Physics Letters</i> , 2014 , 105, 173903	3.4	19
124	Raman analysis of a YBa2Cu3O7lthin film with oxygen depletion. <i>Physica C: Superconductivity and Its Applications</i> , 2010 , 470, 383-390	1.3	19
123	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
122	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
121	Polarization dependence of photocurrent in a metal-graphene-metal device. <i>Applied Physics Letters</i> , 2012 , 101, 073103	3.4	18
120	Compositional analysis of In-rich InGaN layers grown on GaN templates by metalorganic chemical vapor deposition. <i>Journal of Crystal Growth</i> , 2008 , 310, 3004-3008	1.6	18
119	Arbitrary surface structuring of amorphous silicon films based on femtosecond-laser-induced crystallization. <i>Applied Physics Letters</i> , 2006 , 89, 151907	3.4	18
118	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
117	Polarization dependence of double resonant Raman scattering band in bilayer graphene. <i>Carbon</i> , 2014 , 72, 257-263	10.4	17
116	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
115	Davydov splitting and polytypism in few-layer MoS 2. 2D Materials, 2019, 6, 015004	5.9	17
114	Anisotropic behavior of hydrogen in the formation of pentagonal graphene domains. <i>Carbon</i> , 2015 , 89, 242-248	10.4	16
113	Comparison of chalcopyrite and kesterite thin-film solar cells. <i>Journal of Industrial and Engineering Chemistry</i> , 2017 , 45, 78-84	6.3	16
112	Structural, optical and electrical impacts of marcasite in pyrite thin films. <i>Solar Energy</i> , 2018 , 159, 930-9	36 .8	16
111	Single-Crystalline Nanobelts Composed of Transition Metal Ditellurides. <i>Advanced Materials</i> , 2018 , 30, e1707260	24	15
110	Complete suppression of large InAs island formation on GaAs by metal organic chemical vapor deposition with periodic AsH3 interruption. <i>Applied Physics Letters</i> , 2007 , 90, 033105	3.4	15
109	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

(2021-2019)

108	Twist-Angle-Dependent Optoelectronics in a Few-Layer Transition-Metal Dichalcogenide Heterostructure. <i>ACS Applied Materials & amp; Interfaces</i> , 2019 , 11, 2470-2478	15	
107	Polarized Raman spectroscopy for studying two-dimensional materials. <i>Journal of Physics</i> Condensed Matter, 2020 , 32, 343001	15	
106	Simplified perfect absorber structure. <i>Computational Materials Science</i> , 2012 , 61, 243-247 3.2	14	
105	Recombination in Cu(In,Ga)Se2 thin-film solar cells containing ordered vacancy compound phases. Thin Solid Films, 2013 , 546, 358-361	14	
104	Complete determination of the crystallographic orientation of ReX2 (X = S, Se) by polarized Raman spectroscopy. <i>Nanoscale Horizons</i> , 2020 , 5, 308-315	14	
103	Structural Phase Transition and Interlayer Coupling in Few-Layer 1TNand T MoTe. <i>ACS Nano</i> , 2021 , 15, 2962-2970	14	
102	Young Namodulus of ZnO microwires determined by various mechanical measurement methods. Current Applied Physics, 2014, 14, 166-170	13	
101	Multi-band near-perfect absorption via the resonance excitation of dark meta-molecules. <i>Optics Communications</i> , 2015 , 356, 362-367	12	
100	Facile fabrication of sensitive surface enhanced Raman scattering substrate based on CuO/Ag core/shell nanowires. <i>Applied Surface Science</i> , 2020 , 509, 145325	12	
99	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	12	
98	Whispering-gallery-modelike resonance of luminescence from a single hexagonal ZnO microdisk. <i>Journal of Applied Physics</i> , 2009 , 106, 094310	12	
97	Effects of seed layers on structural, morphological, and optical properties of ZnO nanorods. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 511-7	12	
96	Polytypism in few-layer gallium selenide. <i>Nanoscale</i> , 2020 , 12, 8563-8573	11	
95	Photocurrent generation at ABA/ABC lateral junction in tri-layer graphene photodetector. <i>Carbon</i> , 2016 , 96, 454-458	11	
94	Raman spectroscopy of two-dimensional magnetic van der Waals materials. <i>Nanotechnology</i> , 2019 , 30, 452001	11	
93	Crystallographic orientation of early domains in CVD graphene studied by Raman spectroscopy. Chemical Physics Letters, 2013 , 568-569, 146-150 2.5	11	
92	Influence of CdS/CdTe interface properties on the device properties	11	
91	EGeSe: A New Hexagonal Polymorph from Group IV-VI Monochalcogenides. <i>Nano Letters</i> , 2021 , 21, 4305-48身	11	

90	Electrically Robust Single-Crystalline WTe Nanobelts for Nanoscale Electrical Interconnects. <i>Advanced Science</i> , 2019 , 6, 1801370	13.6	10
89	Visualizing Orbital Content of Electronic Bands in Anisotropic 2D Semiconducting ReSe. <i>ACS Nano</i> , 2020 , 14, 7880-7891	16.7	10
88	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
87	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
86	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. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 8697-701	16.4	10
85	Color change of V2O5 thin films upon exposure to organic vapors. <i>Solar Energy Materials and Solar Cells</i> , 2008 , 92, 190-193	6.4	10
84	Electroreflectance and photoluminescence study of InN. <i>Semiconductor Science and Technology</i> , 2005 , 20, 1068-1071	1.8	10
83	Determination of the hyperpolarizability components of hemicyanine dyes by measuring the anisotropic fluorescence and second harmonic of the dyes uniformly aligned within zeolite channels. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 16874-8	3.4	10
82	Characterization of defect modes in YBa2Cu3O7II hin films probed by Raman scattering. <i>Physica C: Superconductivity and Its Applications</i> , 2005 , 418, 28-34	1.3	10
81	Photoluminescence and Lasing Properties of ZnO Nanorods. <i>Journal of the Korean Physical Society</i> , 2010 , 57, 1624-1629	0.6	10
80	Multi-plasmon-induced perfect absorption at the third resonance in metamaterials. <i>Journal of Optics (United Kingdom)</i> , 2015 , 17, 125101	1.7	9
79	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
78	Energy transfer in dye molecule-containing zeolite monolayers. <i>Microporous and Mesoporous Materials</i> , 2014 , 192, 89-94	5.3	9
77	Polarization-independent light emission enhancement of ZnO/Ag nanograting via surface plasmon polariton excitation and cavity resonance. <i>ACS Applied Materials & Description and Communication </i>	9.5	9
76	Thickness-Dependent Phonon Renormalization and Enhanced Raman Scattering in Ultrathin Silicon Nanomembranes. <i>Nano Letters</i> , 2017 , 17, 7744-7750	11.5	9
75	Synthesis and Characterization of Orthorhombic Sb2O4 Nanowire Prepared by Heating Sb2S3 Powder. <i>Electrochemical and Solid-State Letters</i> , 2012 , 15, K49		9
74	Raman scattering studies of YBa2Cu3O7⊠ thin films grown by chemical vapor deposition and metal-organic deposition. <i>Physica C: Superconductivity and Its Applications</i> , 2007 , 463-465, 732-735	1.3	9
73	Raman analysis of asymmetrical chains in YBa2Cu3O7Ifilms. <i>Physica C: Superconductivity and Its Applications</i> , 2007 , 454, 82-87	1.3	9

(2011-2011)

72	Optical Properties of Organic Dye Molecules Incorporated within Different Zeolitic Structures. Journal of the Korean Physical Society, 2011 , 58, 1035-1038	0.6	9
71	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
70	Variation of photoluminescence spectral line shape of monolayer WS 2. <i>Current Applied Physics</i> , 2018 , 18, 941-945	2.6	9
69	Spin-phonon coupling in epitaxial SrRuO heterostructures. <i>Nanoscale</i> , 2020 , 12, 13926-13932	7.7	8
68	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
67	Photoheat-induced Schottky nanojunction and indirect Mott transition in VOIIphotocurrent analysis. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 085602	1.8	8
66	Growth of ZnO-Nanorod Grating on the Seed Grating Produced by Femtosecond Laser Pulses. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 105001	1.4	8
65	Comparison of Pd, Pt and Pt/Pd as Catalysts for Hydrogen Sensor Films. <i>Journal of the Korean Physical Society</i> , 2009 , 55, 2693-2696	0.6	8
64	Optical phonons of SnSeS layered semiconductor alloys. Scientific Reports, 2020, 10, 11761	4.9	8
63	Ultra-large current transport in thick SmBa2Cu3O7\(\text{I}\) films grown by reactive co-evaporation. <i>Physica C: Superconductivity and Its Applications</i> , 2015 , 513, 29-34	1.3	7
62	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
61	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
60	Discrimination between natural and HPHT-treated type IIa diamonds using photoluminescence spectroscopy. <i>Diamond and Related Materials</i> , 2010 , 19, 1254-1258	3.5	7
59	Effects of thin GaAs insertion layer on InAs[InGaAs]IhP(001) quantum dots grown by metalorganic chemical vapor deposition. <i>Applied Physics Letters</i> , 2005 , 86, 223110	3.4	7
58	Universal Oriented van der Waals Epitaxy of 1D Cyanide Chains on Hexagonal 2D Crystals. <i>Advanced Science</i> , 2020 , 7, 1900757	13.6	6
57	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
56	Optical and structural properties of Al-ZnO nanocomposites. <i>Journal of Nanoscience and Nanotechnology</i> , 2014 , 14, 3661-6	1.3	6
55	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

54	Temperature-controlled synthesis of In2Ge2O7nanowires and their photoluminescence properties. Journal Physics D: Applied Physics, 2011, 44, 025502	3	6
53	Local symmetry breaking in Eu1@LaxB6. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 310, 1019-	10280	6
52	Observation of oxide precipitates in InN nanostructures. <i>Applied Physics Letters</i> , 2007 , 91, 234102	3.4	6
51	Improved Durability of Pd/WO3 Hydrogen Sensor Films Prepared by Sputtering. <i>Journal of the Korean Physical Society</i> , 2008 , 52, 50	0.6	6
50	Thickness dependence of antiferromagnetic phase transition in Heisenberg-type MnPS3. <i>Current Applied Physics</i> , 2021 , 21, 1-5	2.6	6
49	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
48	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
47	Symmetric metamaterials based on flower-shaped structure. <i>Materials Chemistry and Physics</i> , 2013 , 141, 535-539	4.4	5
46	Raman Spectroscopy for Characterization of Graphene 2012 , 191-214		5
45	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
44	Optimal growth conditions for GdBa2Cu3O7 thin-film coated conductors characterized by polarized Raman scattering spectroscopy. <i>Physica C: Superconductivity and Its Applications</i> , 2010 , 470, 1021-1024	1.3	5
43	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
42	Long-term Durability of Pd/a-WO3 and Pd-Pt/a-WO3 Thin Films for Hydrogen Sensors. <i>Journal of the Korean Physical Society</i> , 2010 , 57, 1885-1888	0.6	5
41	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
40	Effects of polycrystallinity in nano patterning by ion-beam sputtering. <i>Journal of Applied Physics</i> , 2014 , 116, 024307	2.5	4
39	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
38	Distribution Pattern of Length, Length Uniformity, and Density of TiO32[Quantum Wires in an ETS-10 Crystal Revealed by Laser-Scanning Confocal Polarized Micro-Raman Spectroscopy. <i>Angewandte Chemie</i> , 2011 , 123, 8856-8860	3.6	4
37	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

(2020-2007)

36	Raman scattering spectroscopy of Nd1+xBa2\(\mathbb{R}\)Cu3O7coated conductors grown by pulsed laser deposition. <i>Superconductor Science and Technology</i> , 2007 , 20, 925-929	3.1	4
35	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	29:4	4
34	Design of 2D Layered Catalyst by Coherent Heteroepitaxial Conversion for Robust Hydrogen Generation. <i>Advanced Functional Materials</i> , 2021 , 31, 2005449	15.6	4
33	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
32	Photoluminescence Study of Fluorophore-Containing Zeolite Rods. <i>Journal of the Korean Physical Society</i> , 2007 , 51, 1583	0.6	3
31	Concentration Dependence of the Photoluminescence Energy and Anisotropy from Dye Molecules and Dye Molecule - Zeolite Composites. <i>Journal of the Korean Physical Society</i> , 2008 , 53, 2328-2331	0.6	3
30	Anomalous Dimensionality-Driven Phase Transition of MoTe2 in Van der Waals Heterostructure. <i>Advanced Functional Materials</i> ,2107376	15.6	3
29	Anisotropic phonon softening of uniaxially strained bilayer graphene. <i>Carbon</i> , 2016 , 103, 473-479	10.4	2
28	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
27	Influence of growth process on optical properties of Cu(In1 lkGax)Se2 thin film solar cells. <i>Thin Solid Films</i> , 2013 , 535, 118-121	2.2	2
26	Growth Behaviors of High \${rm J}_{rm c}\$ \${rm Gd}_{1+{rm x}}{rm Ba}_{2-{rm x}}{rm Cu}_{3}{rm O}_{7}\$ Coated Conductors on IBAD-MgO Templates Probed by X-Ray Diffraction and Raman Scattering Spectroscopy. <i>IEEE Transactions on Applied Superconductivity</i> , 2009 , 19, 2929-2932	1.8	2
25	Strong near-ultraviolet and blue emissions at room temperature from two-step grown In-rich InGaN/GaN multiple quantum wells. <i>Micro and Nano Letters</i> , 2006 , 1, 53	0.9	2
24	Selective Growth and Robust Valley Polarization of Bilayer 3-MoS. <i>ACS Applied Materials & Amp; Interfaces</i> , 2021 , 13, 57588-57596	9.5	2
23	Photo-Structuring of Silver-Oxide Films by Using Femtosecond Laser Pulses. <i>Journal of the Korean Physical Society</i> , 2008 , 53, 1414-1418	0.6	2
22	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
21	Atomic-layer-confined multiple quantum wells enabled by monolithic bandgap engineering of transition metal dichalcogenides. <i>Science Advances</i> , 2021 , 7,	14.3	2
20	Investigation of optical properties of magnesium oxide films obtained by spray pyrolysis technique 2016 ,		2
19	Structural configurations and Raman spectra of carbon nanoscrolls. <i>Nanotechnology</i> , 2020 , 31, 315707	3.4	2

18	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
17	Resonant Raman Spectroscopy of Two Dimensional Materials Beyond Graphene. <i>Springer Series in Materials Science</i> , 2019 , 185-202	0.9	1
16	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
15	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
14	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
13	Optical Characterization of Cu2ZnSnSe4 grown by thermal co-evaporation 2011 ,		1
12	Growth behavior and optical properties of In-rich InGaN quantum dots by metal-organic chemical vapor deposition. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2007 , 4, 112-115		1
11	Multiferroic Enabled Magnetic-exciton in 2D Quantum Entangled van der Waals Antiferromagnet Nil <i>Advanced Materials</i> , 2021 , e2109144	24	1
10	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	0
9	Unidirectional Alignment of AgCN Microwires on Distorted Transition Metal Dichalcogenide Crystals. <i>ACS Applied Materials & Dichalcogenials</i> (13, 8727-8735)	9.5	O
8	Interlayer interaction in 2H-MoTe2/hBN heterostructures. 2D Materials, 2021, 8, 045004	5.9	0
7	Fabrication of Nanocrystalline Silicon Gratings Embedded within a Silicon Nitride Matrix by Femtosecond Laser-Induced Crystallization. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 015502	1.4	
6	Effect of dimethylhydrazine on p-type conductivity of as-grown Mg-doped GaN. <i>Physica Status Solidi - Rapid Research Letters</i> , 2009 , 3, 52-54	2.5	
5	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	
4	Raman Scattering Studies of \${rm YBa}_{2}{rm Cu}_{3}{rm O}_{7-{rm x}}\$ Films Grown by High-Rate e-Beam Co-Evaporation. <i>IEEE Transactions on Applied Superconductivity</i> , 2007 , 17, 3325-3328	1.8	
3	Tunnel barrierN property in magnetic tunnel junctions probed by Raman spectroscopy. <i>Physica Status Solidi A</i> , 2004 , 201, 1684-1687		
2	Local transport properties of coated conductors by laser-scan imaging methods. <i>Progress in Superconductivity and Cryogenics (PSAC)</i> , 2016 , 18, 1-4		
1	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	