

# Yasumitsu Miyata

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/7053107/yasumitsu-miyata-publications-by-citations.pdf>

**Version:** 2024-04-26

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.

176  
papers

5,478  
citations

39  
h-index

69  
g-index

191  
ext. papers

6,255  
ext. citations

6.7  
avg, IF

5.45  
L-index

#	Paper	IF	Citations
176	Diameter and rigidity of multiwalled carbon nanotubes are critical factors in mesothelial injury and carcinogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, E1330-8	11.5	379
175	Simple and scalable gel-based separation of metallic and semiconducting carbon nanotubes. <i>Nano Letters</i> , <b>2009</b> , 9, 1497-500	11.5	272
174	A layered ionic crystal of polar Li@C(60) superatoms. <i>Nature Chemistry</i> , <b>2010</b> , 2, 678-83	17.6	237
173	Tunable carbon nanotube thin-film transistors produced exclusively via inkjet printing. <i>Advanced Materials</i> , <b>2010</b> , 22, 3981-6	24	179
172	Highly Stabilized $\beta$ -Carotene in Carbon Nanotubes. <i>Advanced Materials</i> , <b>2006</b> , 18, 437-441	24	177
171	Selective oxidation of semiconducting single-wall carbon nanotubes by hydrogen peroxide. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 25-9	3.4	166
170	High-Yield Separation of Metallic and Semiconducting Single-Wall Carbon Nanotubes by Agarose Gel Electrophoresis. <i>Applied Physics Express</i> , <b>2008</b> , 1, 114001	2.4	149
169	Exfoliation and chemical modification using microwave irradiation affording highly functionalized graphene. <i>ACS Nano</i> , <b>2010</b> , 4, 7499-507	16.7	131
168	Growth and Optical Properties of High-Quality Monolayer WS <sub>2</sub> on Graphite. <i>ACS Nano</i> , <b>2015</b> , 9, 4056-63	16.7	129
167	Optical and Conductive Characteristics of Metallic Single-Wall Carbon Nanotubes with Three Basic Colors; Cyan, Magenta, and Yellow. <i>Applied Physics Express</i> , <b>2008</b> , 1, 034003	2.4	124
166	Size-selective complexation and extraction of endohedral metallofullerenes with cycloparaphenylene. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 3102-6	16.4	121
165	One-dimensional van der Waals heterostructures. <i>Science</i> , <b>2020</b> , 367, 537-542	33.3	119
164	Confined water inside single-walled carbon nanotubes: global phase diagram and effect of finite length. <i>Journal of Chemical Physics</i> , <b>2011</b> , 134, 244501	3.9	112
163	Length-sorted semiconducting carbon nanotubes for high-mobility thin film transistors. <i>Nano Research</i> , <b>2011</b> , 4, 963-970	10	111
162	Photosensitive function of encapsulated dye in carbon nanotubes. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 4992-7	16.4	111
161	Optical Evaluation of the Metal-to-Semiconductor Ratio of Single-Wall Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 13187-13191	3.8	80
160	Morphology and melting behavior of ionic liquids inside single-walled carbon nanotubes. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 14850-6	16.4	79

159	Growth of carbon nanotubes via twisted graphene nanoribbons. <i>Nature Communications</i> , <b>2013</b> , 4, 2548	17.4	77
158	Highly Stabilized Conductivity of Metallic Single Wall Carbon Nanotube Thin Films. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 3591-3596	3.8	76
157	Dimerization-Initiated Preferential Formation of Coronene-Based Graphene Nanoribbons in Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 15141-15145	3.8	74
156	A simple alcohol-chemical vapor deposition synthesis of single-layer graphenes using flash cooling. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 263105	3.4	72
155	Direct and Indirect Interlayer Excitons in a van der Waals Heterostructure of hBN/WS/MoS/hBN. <i>ACS Nano</i> , <b>2018</b> , 12, 2498-2505	16.7	67
154	Light-harvesting function of $\beta$ -carotene inside carbon nanotubes. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	66
153	High-Resolution Electrochemical Mapping of the Hydrogen Evolution Reaction on Transition-Metal Dichalcogenide Nanosheets. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 3601-3608	16.4	65
152	Disentanglement of the electronic properties of metallicity-selected single-walled carbon nanotubes. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	62
151	Synthesis and transformation of linear adamantane assemblies inside carbon nanotubes. <i>ACS Nano</i> , <b>2012</b> , 6, 8674-83	16.7	61
150	Chiral-angle distribution for separated single-walled carbon nanotubes. <i>Nano Letters</i> , <b>2008</b> , 8, 3151-4	11.5	60
149	Evidence of diamond nanowires formed inside carbon nanotubes from diamantane dicarboxylic acid. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 3717-21	16.4	57
148	Chemically Tuned p- and n-Type WSe Monolayers with High Carrier Mobility for Advanced Electronics. <i>Advanced Materials</i> , <b>2019</b> , 31, e1903613	24	56
147	Purity and Defect Characterization of Single-Wall Carbon Nanotubes Using Raman Spectroscopy. <i>Journal of Nanomaterials</i> , <b>2011</b> , 2011, 1-7	3.2	56
146	Chirality-Dependent Combustion of Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 9671-9677	3.8	53
145	High-performance thin-film transistors with DNA-assisted solution processing of isolated single-walled carbon nanotubes. <i>Advanced Materials</i> , <b>2010</b> , 22, 2698-701	24	50
144	Thin single-wall BN-nanotubes formed inside carbon nanotubes. <i>Scientific Reports</i> , <b>2013</b> , 3, 1385	4.9	47
143	Bandgap-tunable lateral and vertical heterostructures based on monolayer Mo <sub>1-x</sub> W <sub>x</sub> S <sub>2</sub> alloys. <i>Nano Research</i> , <b>2015</b> , 8, 3261-3271	10	46
142	Growth and optical properties of Nb-doped WS <sub>2</sub> monolayers. <i>Applied Physics Express</i> , <b>2016</b> , 9, 071201	2.4	44

141	Microscopic basis for the band engineering of Mo <sub>1-x</sub> W <sub>x</sub> S <sub>2</sub> -based heterojunction. <i>Scientific Reports</i> , <b>2015</b> , 5, 14808	4.9	43
140	Interband resonant high-harmonic generation by valley polarized electron-hole pairs. <i>Nature Communications</i> , <b>2019</b> , 10, 3709	17.4	42
139	Thermoelectric properties of single-wall carbon nanotube films: Effects of diameter and wet environment. <i>Applied Physics Express</i> , <b>2016</b> , 9, 025102	2.4	42
138	Intraperitoneal administration of tangled multiwalled carbon nanotubes of 15 nm in diameter does not induce mesothelial carcinogenesis in rats. <i>Pathology International</i> , <b>2013</b> , 63, 457-62	1.8	41
137	Solution-phase extraction of ultrathin inner shells from double-wall carbon nanotubes. <i>ACS Nano</i> , <b>2010</b> , 4, 5807-12	16.7	38
136	High-Efficiency Separation of Single-Wall Carbon Nanotubes by Self-Generated Density Gradient Ultracentrifugation. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 1752-1756	3.8	36
135	IR-extended photoluminescence mapping of single-wall and double-wall carbon nanotubes. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 17420-4	3.4	36
134	Short channel field-effect transistors from highly enriched semiconducting carbon nanotubes. <i>Nano Research</i> , <b>2012</b> , 5, 388-394	10	35
133	Fabrication and characterization of fully flattened carbon nanotubes: a new graphene nanoribbon analogue. <i>Scientific Reports</i> , <b>2013</b> , 3, 1617	4.9	34
132	Direct HRTEM observation of ultrathin freestanding ionic liquid film on carbon nanotube grid. <i>ACS Nano</i> , <b>2011</b> , 5, 4902-8	16.7	34
131	Continuous Heteroepitaxy of Two-Dimensional Heterostructures Based on Layered Chalcogenides. <i>ACS Nano</i> , <b>2019</b> , 13, 7527-7535	16.7	33
130	Size-Selective Complexation and Extraction of Endohedral Metallofullerenes with Cycloparaphenylene. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 3166-3170	3.6	33
129	Modulation of electrical potential and conductivity in an atomic-layer semiconductor heterojunction. <i>Scientific Reports</i> , <b>2016</b> , 6, 31223	4.9	32
128	Fabrication and Characterization of Graphene/Hexagonal Boron Nitride Hybrid Sheets. <i>Applied Physics Express</i> , <b>2012</b> , 5, 085102	2.4	31
127	Preferential synthesis and isolation of (6,5) single-wall nanotubes from one-dimensional C <sub>1</sub> coalescence. <i>Nanoscale</i> , <b>2011</b> , 3, 4190-4	7.7	30
126	Fabrication and optical probing of highly extended, ultrathin graphene nanoribbons in carbon nanotubes. <i>ACS Nano</i> , <b>2015</b> , 9, 5034-40	16.7	29
125	Performance Enhancement of Thin-Film Transistors by Using High-Purity Semiconducting Single-Wall Carbon Nanotubes. <i>Applied Physics Express</i> , <b>2009</b> , 2, 071601	2.4	29
124	Ultrafast formation and decay dynamics of trions in p-doped single-walled carbon nanotubes. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	28

123	Diameter Analysis of Rebundled Single-Wall Carbon Nanotubes Using X-ray Diffraction: Verification of Chirality Assignment Based on Optical Spectra. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 15997-16001	3.8	28
122	Diameter-dependent hydrophobicity in carbon nanotubes. <i>Journal of Chemical Physics</i> , <b>2016</b> , 145, 064514	4.9	28
121	Anisotropic transport in graphene on SiC substrate with periodic nanofacets. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 062111	3.4	27
120	Ultrafast exciton energy transfer between nanoscale coaxial cylinders: intertube transfer and luminescence quenching in double-walled carbon nanotubes. <i>ACS Nano</i> , <b>2011</b> , 5, 5881-7	16.7	25
119	Improvement of thermoelectric performance of single-wall carbon nanotubes by heavy doping: Effect of one-dimensional band multiplicity. <i>Applied Physics Express</i> , <b>2016</b> , 9, 125103	2.4	24
118	Ultrafast energy transfer of one-dimensional excitons between carbon nanotubes: a femtosecond time-resolved luminescence study. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 1070-84	3.6	24
117	Electronic structure of Eu atomic wires encapsulated inside single-wall carbon nanotubes. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	23
116	Thin-Film Transistors with Length-Sorted DNA-Wrapped Single-Wall Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 270-273	3.8	22
115	Bright Luminescence and Exciton Energy Transfer in Polymer-Wrapped Single-Walled Carbon Nanotube Bundles. <i>Journal of Physical Chemistry Letters</i> , <b>2010</b> , 1, 3243-3248	6.4	22
114	Ink-Jet Printing of a Single-Walled Carbon Nanotube Thin Film Transistor. <i>Japanese Journal of Applied Physics</i> , <b>2009</b> , 48, 06FF03	1.4	21
113	Gas-Source CVD Growth of Atomic Layered WS from WF and HS Precursors with High Grain Size Uniformity. <i>Scientific Reports</i> , <b>2019</b> , 9, 17678	4.9	21
112	Restoring the intrinsic optical properties of CVD-grown MoS monolayers and their heterostructures. <i>Nanoscale</i> , <b>2019</b> , 11, 12798-12803	7.7	20
111	Chemical Vapor Deposition Growth of Graphene and Related Materials. <i>Journal of the Physical Society of Japan</i> , <b>2015</b> , 84, 121013	1.5	18
110	Selective Formation of Zigzag Edges in Graphene Cracks. <i>ACS Nano</i> , <b>2015</b> , 9, 9027-33	16.7	18
109	Slidable atomic layers in van der Waals heterostructures. <i>Applied Physics Express</i> , <b>2017</b> , 10, 045201	2.4	17
108	Momentum-forbidden dark excitons in hBN-encapsulated monolayer MoS <sub>2</sub> . <i>Npj 2D Materials and Applications</i> , <b>2019</b> , 3,	8.8	17
107	Absorption spectra of high purity metallic and semiconducting single-walled carbon nanotube thin films in a wide energy region. <i>Solid State Communications</i> , <b>2011</b> , 151, 1696-1699	1.6	17
106	Low-Voltage Operation of Ink-Jet-Printed Single-Walled Carbon Nanotube Thin Film Transistors. <i>Japanese Journal of Applied Physics</i> , <b>2010</b> , 49, 02BD09	1.4	17

105	Combined experimental and ab initio study of the electronic structure of narrow-diameter single-wall carbon nanotubes with predominant (6,4),(6,5) chirality. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	17
104	Mass separation of metallic and semiconducting single-wall carbon nanotubes using agarose gel. <i>Physica Status Solidi (B): Basic Research</i> , <b>2009</b> , 246, 2490-2493	1.3	17
103	On/Off Boundary of Photocatalytic Activity between Single- and Bilayer MoS. <i>ACS Nano</i> , <b>2020</b> , 14, 6663-6672	16	
102	Chirally selective growth and extraction of single-wall carbon nanotubes via fullerene nano-peapods. <i>RSC Advances</i> , <b>2013</b> , 3, 16954	3.7	16
101	Molecular recognition of La@C82 endohedral metallofullerene by an isophthaloyl-bridged porphyrin dimer. <i>Tetrahedron Letters</i> , <b>2010</b> , 51, 5896-5899	2	16
100	Orientation-controlled growth of hexagonal boron nitride monolayers templated from graphene edges. <i>Applied Physics Express</i> , <b>2017</b> , 10, 055102	2.4	15
99	Transient Absorption Kinetics Associated with Higher Exciton States in Semiconducting Single-Walled Carbon Nanotubes: Relaxation of Excitons and Phonons. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 20289-20299	3.8	15
98	Local optical absorption spectra of MoS <sub>2</sub> monolayers obtained using scanning near-field optical microscopy measurements. <i>Japanese Journal of Applied Physics</i> , <b>2016</b> , 55, 038003	1.4	15
97	Electronic relaxation and coherent phonon dynamics in semiconducting single-walled carbon nanotubes with several chiralities. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	14
96	Structure of [email protected]82(I) Metallofullerene by Single-Crystal X-ray Diffraction Using the 1:2 Co-Crystal with Octaethylporphyrin Nickel (Ni(OEP)). <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 6437-6442	3.8	14
95	One-Dimensional Oxygen and Helical Oxygen Nanotubes inside Carbon Nanotubes. <i>Journal of the Physical Society of Japan</i> , <b>2010</b> , 79, 023601	1.5	14
94	Effective Separation of Carbon Nanotubes and Metal Particles from Pristine Raw Soot by Ultracentrifugation. <i>Japanese Journal of Applied Physics</i> , <b>2009</b> , 48, 015004	1.4	14
93	Band gap modification and photoluminescence enhancement of graphene nanoribbon filled single-walled carbon nanotubes. <i>Nanoscale</i> , <b>2018</b> , 10, 2936-2943	7.7	13
92	Evidence of Diamond Nanowires Formed inside Carbon Nanotubes from Diamantane Dicarboxylic Acid. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 3805-3809	3.6	13
91	Colors of carbon nanotubes. <i>Diamond and Related Materials</i> , <b>2009</b> , 18, 935-939	3.5	13
90	Effective, fast, and low temperature encapsulation of fullerene derivatives in single wall carbon nanotubes. <i>Surface Science</i> , <b>2007</b> , 601, 5116-5120	1.8	13
89	Ultrafast Energy Transfer from Fluorene Polymers to Single-Walled Carbon Nanotubes in Wrapped Carbon Nanotube Bundles. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 4647-4652	3.8	13
88	Fabrication of a carbon-nanotube-based field-effect transistor by microcontact printing. <i>Small</i> , <b>2012</b> , 8, 2258-63	11	12

87	Photophysics in Single-Walled Carbon Nanotubes with (6,4) Chirality at High Excitation Densities: Bimolecular Auger Recombination and Phase-Space Filling of Excitons. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 1974-1981	3.8	12
86	Intrinsic magnetoresistance of single-walled carbon nanotubes probed by a noncontact method. <i>Physical Review Letters</i> , <b>2010</b> , 104, 016803	7.4	12
85	Extended-conjugation $\pi$ -electron systems in carbon nanotubes. <i>Scientific Reports</i> , <b>2018</b> , 8, 8098	4.9	12
84	Out-of-Plane Strain Induced in a Moiré Superstructure of Monolayer MoS and MoSe on Au(111). <i>Small</i> , <b>2017</b> , 13, 1700748	11	11
83	Metal catalyst-free mist flow chemical vapor deposition growth of single-wall carbon nanotubes using C60 colloidal solutions. <i>Carbon</i> , <b>2014</b> , 68, 80-86	10.4	11
82	Influence of Aromatic Environments on the Physical Properties of $\beta$ -Carotene. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 2524-2530	3.8	11
81	Purification of 1.9-nm-diameter semiconducting single-wall carbon nanotubes by temperature-controlled gel-column chromatography and its application to thin-film transistor devices. <i>Japanese Journal of Applied Physics</i> , <b>2017</b> , 56, 065102	1.4	10
80	Two-Color Sum-Frequency Generation Study of Single-Walled Carbon Nanotubes on Silver. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 15314-15319	3.8	10
79	Optical properties of metallic and semiconducting single-wall carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , <b>2008</b> , 245, 2233-2238	1.3	10
78	High-Resolution Electrochemical Mapping of the Hydrogen Evolution Reaction on Transition-Metal Dichalcogenide Nanosheets. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 3629-3636	3.6	10
77	Rotational dynamics and dynamical transition of water inside hydrophobic pores of carbon nanotubes. <i>Scientific Reports</i> , <b>2017</b> , 7, 14834	4.9	9
76	Efficient growth and characterization of one-dimensional transition metal tellurides inside carbon nanotubes. <i>Nanoscale</i> , <b>2020</b> , 12, 17185-17190	7.7	9
75	Chirality fingerprinting and geometrical determination of single-walled carbon nanotubes: Analysis of fine structure of X-ray diffraction pattern. <i>Carbon</i> , <b>2014</b> , 75, 299-306	10.4	9
74	Observation of the intrinsic magnetic susceptibility of highly purified single-wall carbon nanotubes. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	9
73	Transformation of ionic liquid into carbon nanotubes in confined nanospace. <i>Chemical Communications</i> , <b>2011</b> , 47, 10368-70	5.8	9
72	Global Phase Diagram of Water Confined on the Nanometer Scale. <i>Journal of the Physical Society of Japan</i> , <b>2010</b> , 79, 083802	1.5	9
71	Electron spin resonance from semiconductor-metal separated SWCNTs. <i>Physica Status Solidi (B): Basic Research</i> , <b>2010</b> , 247, 2851-2854	1.3	9
70	Light-harvesting function of $\beta$ -carotene inside carbon nanotubes explored by femtosecond absorption spectroscopy. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	9



69	CVD Growth Technologies of Layered MX <sub>2</sub> Materials for Real LSI Applications Position and Growth Direction Control and Gas Source Synthesis. <i>IEEE Journal of the Electron Devices Society</i> , <b>2018</b> , 6, 1159-1163	2.3	9
68	Scanning tunneling microscopy/spectroscopy on MoS <sub>2</sub> embedded nanowire formed in CVD-grown Mo <sub>1-x</sub> W <sub>x</sub> S <sub>2</sub> alloy. <i>Japanese Journal of Applied Physics</i> , <b>2017</b> , 56, 08LB06	1.4	8
67	PERIPUTOS: Purity evaluated by Raman intensity of pristine and ultracentrifuged topping of single-wall carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , <b>2009</b> , 246, 2728-2731	1.3	8
66	Purity-enhanced bulk synthesis of thin single-wall carbon nanotubes using iron-copper catalysts. <i>Nanotechnology</i> , <b>2011</b> , 22, 395602	3.4	8
65	An X-ray absorption approach to mixed and metallicity-sorted single-walled carbon nanotubes. <i>Journal of Materials Science</i> , <b>2010</b> , 45, 5318-5322	4.3	8
64	Phase-relaxation processes of excitons in semiconducting single-walled carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , <b>2008</b> , 245, 2712-2715	1.3	8
63	Wafer-Scale Growth of One-Dimensional Transition-Metal Telluride Nanowires. <i>Nano Letters</i> , <b>2021</b> , 21, 243-249	11.5	8
62	Tunable Chemical Coupling in Two-Dimensional van der Waals Electrostatic Heterostructures. <i>ACS Nano</i> , <b>2019</b> , 13, 11214-11223	16.7	7
61	Ultrafast Charge Transfer and Relaxation Dynamics in Polymer-Encapsulating Single-Walled Carbon Nanotubes: Polythiophene and Coronene Polymer. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 16940-16949	3.8	7
60	Rapid Single-Stage Separation of Micrometer-Long and High-Purity Semiconducting Carbon Nanotubes by Gel Filtration. <i>Applied Physics Express</i> , <b>2013</b> , 6, 065101	2.4	7
59	Disentanglement of the unoccupied electronic structure in metallic and semiconducting C <sub>60</sub> peapods. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	7
58	Bond-curvature effect on burning of single-wall carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , <b>2007</b> , 244, 4035-4039	1.3	7
57	Development of laser-combined scanning multiprobe spectroscopy and application to analysis of WSe <sub>2</sub> /MoSe <sub>2</sub> in-plane heterostructure. <i>Applied Physics Express</i> , <b>2019</b> , 12, 045002	2.4	6
56	CVD grown bilayer WSe <sub>2</sub> /MoSe <sub>2</sub> heterostructures for high performance tunnel transistors. <i>Japanese Journal of Applied Physics</i> , <b>2020</b> , 59, SGGH05	1.4	6
55	Ultrafast luminescence kinetics of metallic single-walled carbon nanotubes: Possible evidence for excitonic luminescence. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	6
54	Monolayer MoS field effect transistor with low Schottky barrier height with ferromagnetic metal contacts. <i>Scientific Reports</i> , <b>2019</b> , 9, 17032	4.9	6
53	Monolayer MoS growth at the Au-SiO interface. <i>Nanoscale</i> , <b>2019</b> , 11, 19700-19704	7.7	5
52	The Atomic and Electronic Structure of 0° and 60° Grain Boundaries in MoS <sub>2</sub> . <i>Frontiers in Physics</i> , <b>2019</b> , 7,	3.9	5



51	Synthesis and ambipolar transistor properties of tungsten diselenide nanotubes. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 203106	3.4	5
50	Real-Time Spectroscopy of Single-Walled Carbon Nanotubes for Negative Time Delays by Using a Few-Cycle Pulse Laser. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 3285-3294	3.8	5
49	CONTROLLABLE CHEMICAL VAPOR DEPOSITION SYNTHESIS OF SINGLE-WALL CARBON NANOTUBES USING MIST FLOW METHOD. <i>Nano</i> , <b>2012</b> , 07, 1250045	1.1	5
48	Subpicosecond coherent nonlinear optical response of isolated single-walled carbon nanotubes. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	5
47	Deactivation of singlet oxygen by single-wall carbon nanohorns. <i>Chemical Physics Letters</i> , <b>2006</b> , 431, 1452-148	1.4	5
46	Temperature dependence of the Seebeck coefficient for mixed semiconducting and metallic single-wall carbon nanotube bundles. <i>Applied Physics Express</i> , <b>2020</b> , 13, 015001	2.4	5
45	Efficient separation of semiconducting single-wall carbon nanotubes by surfactant-composition gradient in gel filtration. <i>Japanese Journal of Applied Physics</i> , <b>2017</b> , 56, 015101	1.4	4
44	Clean and polymer-free transfer of CVD-grown graphene films on hexagonal boron nitride substrates. <i>Japanese Journal of Applied Physics</i> , <b>2017</b> , 56, 055102	1.4	4
43	Thermoelectric properties of single-wall carbon nanotube networks. <i>Japanese Journal of Applied Physics</i> , <b>2019</b> , 58, 075003	1.4	4
42	Diameter dependence of phase relaxation time and third-order nonlinear susceptibilities in semiconducting single-walled carbon nanotubes. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 113508	2.5	4
41	Versatile Post-Doping toward Two-Dimensional Semiconductors. <i>ACS Nano</i> , <b>2021</b> ,	16.7	4
40	Control of High-Harmonic Generation by Tuning the Electronic Structure and Carrier Injection. <i>Nano Letters</i> , <b>2020</b> , 20, 6215-6221	11.5	4
39	Air-stable and efficient electron doping of monolayer MoS by salt-crown ether treatment. <i>Nanoscale</i> , <b>2021</b> , 13, 8784-8789	7.7	4
38	Room-Temperature Chiral Light-Emitting Diode Based on Strained Monolayer Semiconductors. <i>Advanced Materials</i> , <b>2021</b> , 33, e2100601	24	4
37	Science of 2.5 dimensional materials: paradigm shift of materials science toward future social innovation.. <i>Science and Technology of Advanced Materials</i> , <b>2022</b> , 23, 275-299	7.1	4
36	e-beam irradiation effects on IR absorption bands in single-walled carbon nanotubes. <i>Solid State Communications</i> , <b>2017</b> , 250, 119-122	1.6	3
35	Transistor properties of relatively small-diameter tungsten disulfide nanotubes obtained by sulfurization of solution-synthesized tungsten oxide nanowires. <i>Applied Physics Express</i> , <b>2019</b> , 12, 085001-4	1.4	3
34	Local optical absorption spectra of h-BN/MoS <sub>2</sub> van der Waals heterostructure revealed by scanning near-field optical microscopy. <i>Japanese Journal of Applied Physics</i> , <b>2016</b> , 55, 06GB01	1.4	3

33	Exciton Polarization and Renormalization Effect for Optical Modulation in Monolayer Semiconductors. <i>ACS Nano</i> , <b>2019</b> , 13, 9218-9226	16.7	3
32	Direct observation of zipper-like wall-to-wall coalescence of double-wall carbon nanotubes. <i>Carbon</i> , <b>2014</b> , 71, 159-165	10.4	3
31	Preparation and Observation of an Atomic Layer of Gold Formed on the Surface of Graphene. <i>Applied Physics Express</i> , <b>2012</b> , 5, 065103	2.4	3
30	Diameter-dependent relaxation dynamics of 1D excitons in single-walled carbon nanotubes. <i>Journal of Luminescence</i> , <b>2008</b> , 128, 952-955	3.8	3
29	Optical Stark Effect of Exciton in Semiconducting Single-Walled Carbon Nanotubes. <i>Japanese Journal of Applied Physics</i> , <b>2006</b> , 45, L513-L515	1.4	3
28	Chemical Doping: Chemically Tuned p- and n-Type WSe <sub>2</sub> Monolayers with High Carrier Mobility for Advanced Electronics (Adv. Mater. 42/2019). <i>Advanced Materials</i> , <b>2019</b> , 31, 1970301	24	2
27	Intra- and inter-tube exciton relaxation dynamics in high purity semiconducting and metallic single-walled carbon nanotubes. <i>European Physical Journal B</i> , <b>2013</b> , 86, 1	1.2	2
26	Trion dynamics in hole-doped single-walled carbon nanotubes <b>2013</b> ,		2
25	Thin-film transistors fabricated from semiconductor-enriched single-wall carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , <b>2009</b> , 246, 2849-2852	1.3	2
24	Nonlinear optical properties and phase-relaxation processes in single-walled carbon nanotubes. <i>Journal of Luminescence</i> , <b>2009</b> , 129, 1794-1797	3.8	2
23	A combined photoemission and ab initio study of the electronic structure of (6,4)/(6,5) enriched single wall carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , <b>2010</b> , 247, 2875-2879	1.3	2
22	Raman response from double-wall carbon nanotubes based on metallicity selected host SWCNTs. <i>Physica Status Solidi (B): Basic Research</i> , <b>2010</b> , 247, 2880-2883	1.3	2
21	Enhancement Of Third-Order Nonlinear Optical Susceptibilities In Single-Walled Carbon Nanotubes. <i>AIP Conference Proceedings</i> , <b>2007</b> ,	0	2
20	Dynamical symmetry of strongly light-driven electronic system in crystalline solids. <i>Communications Physics</i> , <b>2020</b> , 3,	5.4	2
19	Approaching barrier-free contacts to monolayer MoS <sub>2</sub> employing [Co/Pt] multilayer electrodes. <i>NPG Asia Materials</i> , <b>2021</b> , 13,	10.3	2
18	Control of Thermal Conductance across Vertically Stacked Two-Dimensional van der Waals Materials Interfacial Engineering. <i>ACS Nano</i> , <b>2021</b> , 15, 15902-15909	16.7	2
17	Nanowire-to-Nanoribbon Conversion in Transition-Metal Chalcogenides: Implications for One-Dimensional Electronics and Optoelectronics. <i>ACS Applied Nano Materials</i> , <b>2022</b> , 5, 1775-1782	5.6	2
16	High resolution X-ray absorption on metallicity selected C60 peapods, single-, and double walled carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , <b>2011</b> , 248, 2544-2547	1.3	1

15	Synthesis of relatively small-diameter tungsten ditelluride nanowires from solution-grown tungsten oxide nanowires. <i>Japanese Journal of Applied Physics</i> , <b>2021</b> , 60, SCCD02	1.4	1
14	ALD-ZrO <sub>2</sub> gate dielectric with suppressed interfacial oxidation for high performance MoS <sub>2</sub> top gate MOSFETs. <i>Japanese Journal of Applied Physics</i> , <b>2021</b> , 60, SBBH03	1.4	1
13	Light-induced persistent resonance frequency shift of MoS <sub>2</sub> mechanical resonator. <i>Applied Physics Express</i> , <b>2021</b> , 14, 035003	2.4	0
12	Improved synthesis of WS <sub>2</sub> nanotubes with relatively small diameters by tuning sulfurization timing and reaction temperature. <i>Japanese Journal of Applied Physics</i> , <b>2021</b> , 60, 100902	1.4	0
11	The 2D Materials Used for Nanodevice Applications: Utilizing Aggressively Scaled Transistors. <i>IEEE Nanotechnology Magazine</i> , <b>2019</b> , 13, 39-42	1.7	
10	Innentitelbild: Evidence of Diamond Nanowires Formed inside Carbon Nanotubes from Diamantane Dicarboxylic Acid (Angew. Chem. 13/2013). <i>Angewandte Chemie</i> , <b>2013</b> , 125, 3622-3622	3.6	
9	Coherent phonon generation in semiconducting single-walled carbon nanotubes using a few-cycle pulse laser. <i>Journal of Luminescence</i> , <b>2013</b> , 133, 157-161	3.8	
8	Substitutionally-Functionalized vs Metallicity-Selected Single-Walled Carbon Nanotubes: A High Energy Spectroscopy Viewpoint. <i>Materials Research Society Symposia Proceedings</i> , <b>2009</b> , 1204, 1		
7	Carbon Nanotubes Encapsulating Atoms and Molecules. <i>Hyomen Kagaku</i> , <b>2012</b> , 33, 563-568		
6	Insight to the valence band electronic structure of metallicity selected single wall carbon nanotubes from a photoemission viewpoint. <i>Physica Status Solidi (B): Basic Research</i> , <b>2010</b> , 247, 2779-2783 <sup>1,3</sup>		
5	Electrical transport properties of atomically thin WSe <sub>2</sub> using perpendicular magnetic anisotropy metal contacts. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 013102	3-4	
4	Growth of Two-dimensional Materials and Their In-plane Heterostructures by Thermal Chemical Vapor Deposition. <i>Vacuum and Surface Science</i> , <b>2019</b> , 62, 593-598	0	
3	Ultrafast dynamics of light-harvesting function of $\beta$ -carotene in carbon nanotube. <i>Springer Series in Chemical Physics</i> , <b>2009</b> , 610-612	0.3	
2	Room-Temperature Chiral Light-Emitting Diode Based on Strained Monolayer Semiconductors (Adv. Mater. 36/2021). <i>Advanced Materials</i> , <b>2021</b> , 33, 2170282	24	
1	Chemical Vapor Deposition of Atomically-thin Layered and Wired Transition Metal Chalcogenides. <i>Vacuum and Surface Science</i> , <b>2022</b> , 65, 196-201	0	