Yasumitsu Miyata

List of Publications by Year
in descending order

187 papers	6,923 citations	76196 40 h-index	76769 74 g-index
191 all docs	191 docs citations	191 times ranked	8521 citing authors

#	Article	IF	Citations
1	Diameter and rigidity of multiwalled carbon nanotubes are critical factors in mesothelial injury and carcinogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, E1330-8.	3.3	437
2	Simple and Scalable Gel-Based Separation of Metallic and Semiconducting Carbon Nanotubes. Nano Letters, 2009, 9, 1497-1500.	4.5	307
3	A layered ionic crystal of polar Li@C60 superatoms. Nature Chemistry, 2010, 2, 678-683.	6.6	275
4	One-dimensional van der Waals heterostructures. Science, 2020, 367, 537-542.	6.0	238
5	Highly Stabilized Î2-Carotene in Carbon Nanotubes. Advanced Materials, 2006, 18, 437-441.	11.1	202
6	Tunable Carbon Nanotube Thinâ€Film Transistors Produced Exclusively via Inkjet Printing. Advanced Materials, 2010, 22, 3981-3986.	11.1	201
7	Selective Oxidation of Semiconducting Single-Wall Carbon Nanotubes by Hydrogen Peroxide. Journal of Physical Chemistry B, 2006, 110, 25-29.	1.2	190
8	High-Yield Separation of Metallic and Semiconducting Single-Wall Carbon Nanotubes by Agarose Gel Electrophoresis. Applied Physics Express, 0, 1, 114001.	1.1	169
9	Growth and Optical Properties of High-Quality Monolayer WS₂ on Graphite. ACS Nano, 2015, 9, 4056-4063.	7.3	162
10	Exfoliation and Chemical Modification Using Microwave Irradiation Affording Highly Functionalized Graphene. ACS Nano, 2010, 4, 7499-7507.	7.3	150
11	Sizeâ€Selective Complexation and Extraction of Endohedral Metallofullerenes with Cycloparaphenylene. Angewandte Chemie - International Edition, 2014, 53, 3102-3106.	7.2	144
12	Optical and Conductive Characteristics of Metallic Single-Wall Carbon Nanotubes with Three Basic Colors; Cyan, Magenta, and Yellow. Applied Physics Express, 0, 1, 034003.	1.1	138
13	Highâ€Resolution Electrochemical Mapping of the Hydrogen Evolution Reaction on Transitionâ€Metal Dichalcogenide Nanosheets. Angewandte Chemie - International Edition, 2020, 59, 3601-3608.	7.2	136
14	Confined water inside single-walled carbon nanotubes: Global phase diagram and effect of finite length. Journal of Chemical Physics, 2011, 134, 244501.	1.2	133
15	Length-sorted semiconducting carbon nanotubes for high-mobility thin film transistors. Nano Research, 2011, 4, 963-970.	5.8	128
16	Photosensitive Function of Encapsulated Dye in Carbon Nanotubes. Journal of the American Chemical Society, 2007, 129, 4992-4997.	6.6	123
17	Chemically Tuned pâ€•and nâ€Type WSe₂ Monolayers with High Carrier Mobility for Advanced Electronics. Advanced Materials, 2019, 31, e1903613.	11.1	111
18	Interband resonant high-harmonic generation by valley polarized electronâ€"hole pairs. Nature Communications, 2019, 10, 3709.	5.8	100

#	Article	IF	Citations
19	Direct and Indirect Interlayer Excitons in a van der Waals Heterostructure of hBN/WS₂/MoS₂/hBN. ACS Nano, 2018, 12, 2498-2505.	7.3	96
20	Optical Evaluation of the Metal-to-Semiconductor Ratio of Single-Wall Carbon Nanotubes. Journal of Physical Chemistry C, 2008, 112, 13187-13191.	1.5	91
21	Growth of carbon nanotubes via twisted graphene nanoribbons. Nature Communications, 2013, 4, 2548.	5.8	89
22	Morphology and Melting Behavior of Ionic Liquids inside Single-Walled Carbon Nanotubes. Journal of the American Chemical Society, 2009, 131, 14850-14856.	6.6	87
23	Dimerization-Initiated Preferential Formation of Coronene-Based Graphene Nanoribbons in Carbon Nanotubes. Journal of Physical Chemistry C, 2012, 116, 15141-15145.	1.5	87
24	Highly Stabilized Conductivity of Metallic Single Wall Carbon Nanotube Thin Films. Journal of Physical Chemistry C, 2008, 112, 3591-3596.	1.5	86
25	A simple alcohol-chemical vapor deposition synthesis of single-layer graphenes using flash cooling. Applied Physics Letters, 2010, 96, .	1.5	81
26	Disentanglement of the electronic properties of metallicity-selected single-walled carbon nanotubes. Physical Review B, 2009, 80, .	1.1	73
27	Light-harvesting function ofÎ²-carotene inside carbon nanotubes. Physical Review B, 2006, 74, .	1.1	72
28	Evidence of Diamond Nanowires Formed inside Carbon Nanotubes from Diamantane Dicarboxylic Acid. Angewandte Chemie - International Edition, 2013, 52, 3717-3721.	7.2	71
29	Synthesis and Transformation of Linear Adamantane Assemblies inside Carbon Nanotubes. ACS Nano, 2012, 6, 8674-8683.	7.3	70
30	Chiral-Angle Distribution for Separated Single-Walled Carbon Nanotubes. Nano Letters, 2008, 8, 3151-3154.	4.5	69
31	Purity and Defect Characterization of Single-Wall Carbon Nanotubes Using Raman Spectroscopy. Journal of Nanomaterials, 2011, 2011, 1-7.	1.5	69
32	Thin single-wall BN-nanotubes formed inside carbon nanotubes. Scientific Reports, 2013, 3, 1385.	1.6	58
33	Growth and optical properties of Nb-doped WS₂ monolayers. Applied Physics Express, 2016, 9, 071201.	1.1	58
34	Chirality-Dependent Combustion of Single-Walled Carbon Nanotubes. Journal of Physical Chemistry C, 2007, 111, 9671-9677.	1.5	56
35	Highâ€Performance Thinâ€Film Transistors with DNAâ€Assisted Solution Processing of Isolated Singleâ€Walled Carbon Nanotubes. Advanced Materials, 2010, 22, 2698-2701.	11.1	54
36	Bandgap-tunable lateral and vertical heterostructures based on monolayer Mo1-x W x S2 alloys. Nano Research, 2015, 8, 3261-3271.	5.8	54

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37	Microscopic basis for the band engineering of Mo1âˆ’xWxS2-based heterojunction. Scientific Reports, 2015, 5, 14808.	1.6	52
38	Thermoelectric properties of single-wall carbon nanotube films: Effects of diameter and wet environment. Applied Physics Express, 2016, 9, 025102.	1.1	49
39	Continuous Heteroepitaxy of Two-Dimensional Heterostructures Based on Layered Chalcogenides. ACS Nano, 2019, 13, 7527-7535.	7.3	48
40	Intraperitoneal administration of tangled multiwalled carbon nanotubes of 15â€‰nm in diameter does not induce mesothelial carcinogenesis in rats. Pathology International, 2013, 63, 457-462.	0.6	47
41	Solution-Phase Extraction of Ultrathin Inner Shells from Double-Wall Carbon Nanotubes. ACS Nano, 2010, 4, 5807-5812.	7.3	44
42	Modulation of electrical potential and conductivity in an atomic-layer semiconductor heterojunction. Scientific Reports, 2016, 6, 31223.	1.6	44
43	Direct HRTEM Observation of Ultrathin Freestanding Ionic Liquid Film on Carbon Nanotube Grid. ACS Nano, 2011, 5, 4902-4908.	7.3	40
44	Short channel field-effect transistors from highly enriched semiconducting carbon nanotubes. Nano Research, 2012, 5, 388-394.	5.8	40
45	IR-Extended Photoluminescence Mapping of Single-Wall and Double-Wall Carbon Nanotubes. Journal of Physical Chemistry B, 2006, 110, 17420-17424.	1.2	39
46	Fabrication and Characterization of Fully Flattened Carbon Nanotubes: A New Graphene Nanoribbon Analogue. Scientific Reports, 2013, 3, 1617.	1.6	39
47	Diameter-dependent hydrophobicity in carbon nanotubes. Journal of Chemical Physics, 2016, 145, .	1.2	39
48	High-Efficiency Separation of Single-Wall Carbon Nanotubes by Self-Generated Density Gradient Ultracentrifugation. Journal of Physical Chemistry C, 2011, 115, 1752-1756.	1.5	38
49	Fabrication and Characterization of Graphene/Hexagonal Boron Nitride Hybrid Sheets. Applied Physics Express, 2012, 5, 085102.	1.1	37
50	Restoring the intrinsic optical properties of CVD-grown MoS₂ monolayers and their heterostructures. Nanoscale, 2019, 11, 12798-12803.	2.8	37
51	Fabrication and Optical Probing of Highly Extended, Ultrathin Graphene Nanoribbons in Carbon Nanotubes. ACS Nano, 2015, 9, 5034-5040.	7.3	36
52	Gas-Source CVD Growth of Atomic Layered WS2 from WF6 and H2S Precursors with High Grain Size Uniformity. Scientific Reports, 2019, 9, 17678.	1.6	36
53	Performance Enhancement of Thin-Film Transistors by Using High-Purity Semiconducting Single-Wall Carbon Nanotubes. Applied Physics Express, 0, 2, 071601.	1.1	33
54	Preferential synthesis and isolation of (6,5) single-wall nanotubes from one-dimensional C60 coalescence. Nanoscale, 2011, 3, 4190.	2.8	33

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55	Ultrafast energy transfer of one-dimensional excitons between carbon nanotubes: a femtosecond time-resolved luminescence study. Physical Chemistry Chemical Physics, 2012, 14, 1070-1084.	1.3	33
56	Science of 2.5 dimensional materials: paradigm shift of materials science toward future social innovation. Science and Technology of Advanced Materials, 2022, 23, 275-299.	2.8	32
57	Diameter Analysis of Rebundled Single-Wall Carbon Nanotubes Using X-ray Diffraction: Verification of Chirality Assignment Based on Optical Spectra. Journal of Physical Chemistry C, 2008, 112, 15997-16001.	1.5	31
58	Ultrafast formation and decay dynamics of trions in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>p</mml:mi></mml:math>-doped single-walled carbon nanotubes. Physical Review B, 2013, 87, .	1.1	31
59	Ultrafast Exciton Energy Transfer between Nanoscale Coaxial Cylinders: Intertube Transfer and Luminescence Quenching in Double-Walled Carbon Nanotubes. ACS Nano, 2011, 5, 5881-5887.	7.3	30
60	Anisotropic transport in graphene on SiC substrate with periodic nanofacets. Applied Physics Letters, 2010, 96, 062111.	1.5	29
61	Electronic structure of Eu atomic wires encapsulated inside single-wall carbon nanotubes. Physical Review B, 2012, 86, .	1.1	29
62	On/Off Boundary of Photocatalytic Activity between Single- and Bilayer MoS₂. ACS Nano, 2020, 14, 6663-6672.	7.3	29
63	Improvement of thermoelectric performance of single-wall carbon nanotubes by heavy doping: Effect of one-dimensional band multiplicity. Applied Physics Express, 2016, 9, 125103.	1.1	27
64	Outâ€ofâ€Plane Strain Induced in a MoirÃ© Superstructure of Monolayer MoS₂ and MoSe₂ on Au(111). Small, 2017, 13, 1700748.	5.2	26
65	Ink-Jet Printing of a Single-Walled Carbon Nanotube Thin Film Transistor. Japanese Journal of Applied Physics, 2009, 48, 06FF03.	0.8	25
66	Thin-Film Transistors with Length-Sorted DNA-Wrapped Single-Wall Carbon Nanotubes. Journal of Physical Chemistry C, 2011, 115, 270-273.	1.5	25
67	Momentum-forbidden dark excitons in hBN-encapsulated monolayer MoS2. Npj 2D Materials and Applications, 2019, 3, .	3.9	25
68	Chemical Vapor Deposition Growth of Graphene and Related Materials. Journal of the Physical Society of Japan, 2015, 84, 121013.	0.7	24
69	Selective Formation of Zigzag Edges in Graphene Cracks. ACS Nano, 2015, 9, 9027-9033.	7.3	24
70	Mass separation of metallic and semiconducting singleâ€wall carbon nanotubes using agarose gel. Physica Status Solidi (B): Basic Research, 2009, 246, 2490-2493.	0.7	23
71	Bright Luminescence and Exciton Energy Transfer in Polymer-Wrapped Single-Walled Carbon Nanotube Bundles. Journal of Physical Chemistry Letters, 2010, 1, 3243-3248.	2.1	23
72	Slidable atomic layers in van der Waals heterostructures. Applied Physics Express, 2017, 10, 045201.	1.1	22

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73	Low-Voltage Operation of Ink-Jet-Printed Single-Walled Carbon Nanotube Thin Film Transistors. Japanese Journal of Applied Physics, 2010, 49, 02BD09.	0.8	21
74	Extended-conjugation Ï€-electron systems in carbon nanotubes. Scientific Reports, 2018, 8, 8098.	1.6	20
75	Control of High-Harmonic Generation by Tuning the Electronic Structure and Carrier Injection. Nano Letters, 2020, 20, 6215-6221.	4.5	20
76	Efficient growth and characterization of one-dimensional transition metal tellurides inside carbon nanotubes. Nanoscale, 2020, 12, 17185-17190.	2.8	20
77	Directional Exciton-Energy Transport in a Lateral Heteromonolayer of WSe₂â€“MoSe₂. ACS Nano, 2022, 16, 8205-8212.	7.3	20
78	Combined experimental and<i>ab initio</i>study of the electronic structure of narrow-diameter single-wall carbon nanotubes with predominant (6,4),(6,5) chirality. Physical Review B, 2010, 82, .	1.1	19
79	Absorption spectra of high purity metallic and semiconducting single-walled carbon nanotube thin films in a wide energy region. Solid State Communications, 2011, 151, 1696-1699.	0.9	19
80	Band gap modification and photoluminescence enhancement of graphene nanoribbon filled single-walled carbon nanotubes. Nanoscale, 2018, 10, 2936-2943.	2.8	19
81	Wafer-Scale Growth of One-Dimensional Transition-Metal Telluride Nanowires. Nano Letters, 2021, 21, 243-249.	4.5	18
82	Transient Absorption Kinetics Associated with Higher Exciton States in Semiconducting Single-Walled Carbon Nanotubes: Relaxation of Excitons and Phonons. Journal of Physical Chemistry C, 2013, 117, 20289-20299.	1.5	17
83	Electronic relaxation and coherent phonon dynamics in semiconducting single-walled carbon nanotubes with several chiralities. Physical Review B, 2013, 88, .	1.1	17
84	Structure of Tm@C₈₂(I) Metallofullerene by Single-Crystal X-ray Diffraction Using the 1:2 Co-Crystal with Octaethylporphyrin Nickel (Ni(OEP)). Journal of Physical Chemistry C, 2013, 117, 6437-6442.	1.5	17
85	Orientation-controlled growth of hexagonal boron nitride monolayers templated from graphene edges. Applied Physics Express, 2017, 10, 055102.	1.1	17
86	Colors of carbon nanotubes. Diamond and Related Materials, 2009, 18, 935-939.	1.8	16
87	Molecular recognition of La@C82 endohedral metallofullerene by an isophthaloyl-bridged porphyrin dimer. Tetrahedron Letters, 2010, 51, 5896-5899.	0.7	16
88	Chirally selective growth and extraction of single-wall carbon nanotubes via fullerene nano-peapods. RSC Advances, 2013, 3, 16954.	1.7	16
89	Photophysics in Single-Walled Carbon Nanotubes with (6,4) Chirality at High Excitation Densities: Bimolecular Auger Recombination and Phase-Space Filling of Excitons. Journal of Physical Chemistry C, 2013, 117, 1974-1981.	1.5	16
90	Ultrafast Energy Transfer from Fluorene Polymers to Single-Walled Carbon Nanotubes in Wrapped Carbon Nanotube Bundles. Journal of Physical Chemistry C, 2016, 120, 4647-4652.	1.5	16

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91	Local optical absorption spectra of MoS2monolayers obtained using scanning near-field optical microscopy measurements. Japanese Journal of Applied Physics, 2016, 55, 038003.	0.8	16
92	Roomâ€Temperature Chiral Lightâ€Emitting Diode Based on Strained Monolayer Semiconductors. Advanced Materials, 2021, 33, e2100601.	11.1	16
93	Effective, fast, and low temperature encapsulation of fullerene derivatives in single wall carbon nanotubes. Surface Science, 2007, 601, 5116-5120.	0.8	15
94	Optical properties of metallic and semiconducting singleâ€wall carbon nanotubes. Physica Status Solidi (B): Basic Research, 2008, 245, 2233-2238.	0.7	15
95	One-Dimensional Oxygen and Helical Oxygen Nanotubes inside Carbon Nanotubes. Journal of the Physical Society of Japan, 2010, 79, 023601.	0.7	15
96	Effective Separation of Carbon Nanotubes and Metal Particles from Pristine Raw Soot by Ultracentrifugation. Japanese Journal of Applied Physics, 2009, 48, 015004.	0.8	14
97	Two-Color Sum-Frequency Generation Study of Single-Walled Carbon Nanotubes on Silver. Journal of Physical Chemistry C, 2009, 113, 15314-15319.	1.5	14
98	Fabrication of a Carbonâ€Nanotubeâ€Based Fieldâ€Effect Transistor by Microcontact Printing. Small, 2012, 8, 2258-2263.	5.2	14
99	Rotational dynamics and dynamical transition of water inside hydrophobic pores of carbon nanotubes. Scientific Reports, 2017, 7, 14834.	1.6	14
100	Versatile Post-Doping toward Two-Dimensional Semiconductors. ACS Nano, 2021, 15, 19225-19232.	7.3	14
101	Efficient and Chiral Electroluminescence from Inâ€Plane Heterostructure of Transition Metal Dichalcogenide Monolayers. Advanced Functional Materials, 2022, 32, .	7.8	14
102	Intrinsic Magnetoresistance of Single-Walled Carbon Nanotubes Probed by a Noncontact Method. Physical Review Letters, 2010, 104, 016803.	2.9	13
103	Chirality fingerprinting and geometrical determination of single-walled carbon nanotubes: Analysis of fine structure of X-ray diffraction pattern. Carbon, 2014, 75, 299-306.	5.4	13
104	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. Japanese Journal of Applied Physics, 2017, 56, 065102.	0.8	13
105	Tunable Chemical Coupling in Two-Dimensional van der Waals Electrostatic Heterostructures. ACS Nano, 2019, 13, 11214-11223.	7.3	13
106	CVD grown bilayer WSe₂/MoSe₂ heterostructures for high performance tunnel transistors. Japanese Journal of Applied Physics, 2020, 59, SGGH05.	0.8	13
107	Influence of Aromatic Environments on the Physical Properties of Î2-Carotene. Journal of Physical Chemistry C, 2010, 114, 2524-2530.	1.5	12
108	Metal catalyst-free mist flow chemical vapor deposition growth of single-wall carbon nanotubes using C60 colloidal solutions. Carbon, 2014, 68, 80-86.	5.4	12

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109	Observation of the intrinsic magnetic susceptibility of highly purified single-wall carbon nanotubes. Physical Review B, 2015, 92, .	1.1	12
110	CVD Growth Technologies of Layered MX₂ Materials for Real LSI Applicationsâ€”Position and Growth Direction Control and Gas Source Synthesis. IEEE Journal of the Electron Devices Society, 2018, 6, 1159-1163.	1.2	12
111	Ultrafast Charge Transfer and Relaxation Dynamics in Polymer-Encapsulating Single-Walled Carbon Nanotubes: Polythiophene and Coronene Polymer. Journal of Physical Chemistry C, 2018, 122, 16940-16949.	1.5	12
112	Air-stable and efficient electron doping of monolayer MoS₂ by saltâ€“crown ether treatment. Nanoscale, 2021, 13, 8784-8789.	2.8	12
113	PERIPUTOS: Purity evaluated by Raman intensity of pristine and ultracentrifuged topping of singleâ€wall carbon nanotubes. Physica Status Solidi (B): Basic Research, 2009, 246, 2728-2731.	0.7	11
114	Global Phase Diagram of Water Confined on the Nanometer Scale. Journal of the Physical Society of Japan, 2010, 79, 083802.	0.7	11
115	Highâ€Resolution Electrochemical Mapping of the Hydrogen Evolution Reaction on Transitionâ€Metal Dichalcogenide Nanosheets. Angewandte Chemie, 2020, 132, 3629-3636.	1.6	11
116	Control of Thermal Conductance across Vertically Stacked Two-Dimensional van der Waals Materials <i>via</i> Interfacial Engineering. ACS Nano, 2021, 15, 15902-15909.	7.3	11
117	Phaseâ€relaxation processes of excitons in semiconducting singleâ€walled carbon nanotubes. Physica Status Solidi (B): Basic Research, 2008, 245, 2712-2715.	0.7	10
118	Light-harvesting function ofÎ²-carotene inside carbon nanotubes explored by femtosecond absorption spectroscopy. Physical Review B, 2008, 77, .	1.1	10
119	Ultrafast luminescence kinetics of metallic single-walled carbon nanotubes: Possible evidence for excitonic luminescence. Physical Review B, 2012, 85, .	1.1	10
120	Scanning tunneling microscopy/spectroscopy on MoS₂ embedded nanowire formed in CVD-grown Mo_{1âˆ’} <i> _x </i>W<i> _x </i>S₂ alloy. Japanese Journal of Applied Physics, 2017, 56, 08LB06.	0.8	10
121	The Atomic and Electronic Structure of 0Â° and 60Â° Grain Boundaries in MoS2. Frontiers in Physics, 2019, 7, .	1.0	10
122	Development of laser-combined scanning multiprobe spectroscopy and application to analysis of WSe₂/MoSe₂ in-plane heterostructure. Applied Physics Express, 2019, 12, 045002.	1.1	10
123	Dynamical symmetry of strongly light-driven electronic system in crystalline solids. Communications Physics, 2020, 3, .	2.0	10
124	Synthesis and ambipolar transistor properties of tungsten diselenide nanotubes. Applied Physics Letters, 2020, 116, .	1.5	10
125	Bondâ€curvature effect on burning of singleâ€wall carbon nanotubes. Physica Status Solidi (B): Basic Research, 2007, 244, 4035-4039.	0.7	9
126	Electron spin resonance from semiconductorâ€“metal separated SWCNTs. Physica Status Solidi (B): Basic Research, 2010, 247, 2851-2854.	0.7	9

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127	Transformation of ionic liquid into carbon nanotubes in confined nanospace. Chemical Communications, 2011, 47, 10368.	2.2	9
128	Purity-enhanced bulk synthesis of thin single-wall carbon nanotubes using ironâ€“copper catalysts. Nanotechnology, 2011, 22, 395602.	1.3	9
129	Exciton Polarization and Renormalization Effect for Optical Modulation in Monolayer Semiconductors. ACS Nano, 2019, 13, 9218-9226.	7.3	9
130	Monolayer MoS2 field effect transistor with low Schottky barrier height with ferromagnetic metal contacts. Scientific Reports, 2019, 9, 17032.	1.6	9
131	An X-ray absorption approach to mixed and metallicity-sorted single-walled carbon nanotubes. Journal of Materials Science, 2010, 45, 5318-5322.	1.7	8
132	Rapid Single-Stage Separation of Micrometer-Long and High-Purity Semiconducting Carbon Nanotubes by Gel Filtration. Applied Physics Express, 2013, 6, 065101.	1.1	8
133	Real-Time Spectroscopy of Single-Walled Carbon Nanotubes for Negative Time Delays by Using a Few-Cycle Pulse Laser. Journal of Physical Chemistry C, 2014, 118, 3285-3294.	1.5	8
134	Transistor properties of relatively small-diameter tungsten disulfide nanotubes obtained by sulfurization of solution-synthesized tungsten oxide nanowires. Applied Physics Express, 2019, 12, 085001.	1.1	8
135	Temperature dependence of the Seebeck coefficient for mixed semiconducting and metallic single-wall carbon nanotube bundles. Applied Physics Express, 2020, 13, 015001.	1.1	8
136	Approaching barrier-free contacts to monolayer MoS2 employing [Co/Pt] multilayer electrodes. NPG Asia Materials, 2021, 13, .	3.8	8
137	Spatial Control of Dynamic <i>pâ€“iâ€“n</i> Junctions in Transition Metal Dichalcogenide Light-Emitting Devices. ACS Nano, 2021, 15, 12911-12921.	7.3	8
138	Disentanglement of the unoccupied electronic structure in metallic and semiconductingC60peapods. Physical Review B, 2011, 83, .	1.1	7
139	Monolayer MoS2 growth at the Auâ€“SiO2 interface. Nanoscale, 2019, 11, 19700-19704.	2.8	7
140	Improved synthesis of WS₂ nanotubes with relatively small diameters by tuning sulfurization timing and reaction temperature. Japanese Journal of Applied Physics, 2021, 60, 100902.	0.8	7
141	Nanowire-to-Nanoribbon Conversion in Transition-Metal Chalcogenides: Implications for One-Dimensional Electronics and Optoelectronics. ACS Applied Nano Materials, 2022, 5, 1775-1782.	2.4	7
142	Deactivation of singlet oxygen by single-wall carbon nanohorns. Chemical Physics Letters, 2006, 431, 145-148.	1.2	6
143	Subpicosecond coherent nonlinear optical response of isolated single-walled carbon nanotubes. Physical Review B, 2009, 80, .	1.1	6
144	Thermoelectric properties of single-wall carbon nanotube networks. Japanese Journal of Applied Physics, 2019, 58, 075003.	0.8	6

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145	Three-dimensional networks of superconducting NbSe2 flakes with nearly isotropic large upper critical field. Npj 2D Materials and Applications, 2021, 5, .	3.9	6
146	Preparation and Observation of an Atomic Layer of Gold Formed on the Surface of Graphene. Applied Physics Express, 2012, 5, 065103.	1.1	5
147	CONTROLLABLE CHEMICAL VAPOR DEPOSITION SYNTHESIS OF SINGLE-WALL CARBON NANOTUBES USING MIST FLOW METHOD. Nano, 2012, 07, 1250045.	0.5	5
148	Efficient separation of semiconducting single-wall carbon nanotubes by surfactant-composition gradient in gel filtration. Japanese Journal of Applied Physics, 2017, 56, 015101.	0.8	5
149	Clean and polymer-free transfer of CVD-grown graphene films on hexagonal boron nitride substrates. Japanese Journal of Applied Physics, 2017, 56, 055102.	0.8	5
150	Optical Stark Effect of Exciton in Semiconducting Single-Walled Carbon Nanotubes. Japanese Journal of Applied Physics, 2006, 45, L513-L515.	0.8	4
151	Diameter dependence of phase relaxation time and third-order nonlinear susceptibilities in semiconducting single-walled carbon nanotubes. Journal of Applied Physics, 2011, 109, 113508.	1.1	4
152	Direct observation of zipper-like wall-to-wall coalescence of double-wall carbon nanotubes. Carbon, 2014, 71, 159-165.	5.4	4
153	e-beam irradiation effects on IR absorption bands in single-walled carbon nanotubes. Solid State Communications, 2017, 250, 119-122.	0.9	4
154	Chemical Doping: Chemically Tuned pâ€•and nâ€Type WSe₂ Monolayers with High Carrier Mobility for Advanced Electronics (Adv. Mater. 42/2019). Advanced Materials, 2019, 31, 1970301.	11.1	4
155	ALD-ZrO₂ gate dielectric with suppressed interfacial oxidation for high performance MoS₂ top gate MOSFETs. Japanese Journal of Applied Physics, 2021, 60, SBBH03.	0.8	4
156	Formation of a Two-Dimensional Electronic System in Laterally Assembled WTe Nanowires. ACS Applied Nano Materials, 2022, 5, 6277-6284.	2.4	4
157	Diameter-dependent relaxation dynamics of 1D excitons in single-walled carbon nanotubes. Journal of Luminescence, 2008, 128, 952-955.	1.5	3
158	Thinâ€film transistors fabricated from semiconductorâ€enriched singleâ€wall carbon nanotubes. Physica Status Solidi (B): Basic Research, 2009, 246, 2849-2852.	0.7	3
159	A combined photoemission and <i>ab initio</i> study of the electronic structure of (6,4)/(6,5) enriched single wall carbon nanotubes. Physica Status Solidi (B): Basic Research, 2010, 247, 2875-2879.	0.7	3
160	Local optical absorption spectra of h-BNâ€“MoS2van der Waals heterostructure revealed by scanning near-field optical microscopy. Japanese Journal of Applied Physics, 2016, 55, 06GB01.	0.8	3
161	Enhancement Of Third-Order Nonlinear Optical Susceptibilities In Single-Walled Carbon Nanotubes. AIP Conference Proceedings, 2007, , .	0.3	2
162	Nonlinear optical properties and phase-relaxation processes in single-walled carbon nanotubes. Journal of Luminescence, 2009, 129, 1794-1797.	1.5	2

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163	Raman response from doubleâ€wall carbon nanotubes based on metallicity selected host SWCNTs. Physica Status Solidi (B): Basic Research, 2010, 247, 2880-2883.	0.7	2
164	Intra- and inter-tube exciton relaxation dynamics in high purity semiconducting and metallic single-walled carbon nanotubes. European Physical Journal B, 2013, 86, 1.	0.6	2
165	Trion dynamics in hole-doped single-walled carbon nanotubes. , 2013, , .		2
166	Light-induced persistent resonance frequency shift of MoS₂ mechanical resonator. Applied Physics Express, 2021, 14, 035003.	1.1	2
167	Synthesis of relatively small-diameter tungsten ditelluride nanowires from solution-grown tungsten oxide nanowires. Japanese Journal of Applied Physics, 2021, 60, SCCD02.	0.8	2
168	High resolution Xâ€ray absorption on metallicity selected C₆₀ peapods, singleâ€, and double walled carbon nanotubes. Physica Status Solidi (B): Basic Research, 2011, 248, 2544-2547.	0.7	1
169	Innentitelbild: Evidence of Diamond Nanowires Formed inside Carbon Nanotubes from Diamantane Dicarboxylic Acid (Angew. Chem. 13/2013). Angewandte Chemie, 2013, 125, 3622-3622.	1.6	1
170	Comparative Study of High-k Dielectric on MoS2 Deposited by Plasma Enhanced ALD. , 2019, , .		1
171	Electrical transport properties of atomically thin WSe2 using perpendicular magnetic anisotropy metal contacts. Applied Physics Letters, 2022, 120, .	1.5	1
172	Substitutionally-Functionalized vs Metallicity-Selected Single-Walled Carbon Nanotubes: A High Energy Spectroscopy Viewpoint. Materials Research Society Symposia Proceedings, 2009, 1204, 1.	0.1	0
173	Insight to the valence band electronic structure of metallicity selected single wall carbon nanotubes from a photoemission viewpoint. Physica Status Solidi (B): Basic Research, 2010, 247, 2779-2783.	0.7	0
174	Absorption spectra of high purity metallic and semiconducting single-walled carbon nanotube thin films in a broad frequency region. , 2010, , .		0
175	Carbon Nanotubes Encapsulating Atoms and Molecules. Hyomen Kagaku, 2012, 33, 563-568.	0.0	0
176	Coherent phonon generation in semiconducting single-walled carbon nanotubes using a few-cycle pulse laser. Journal of Luminescence, 2013, 133, 157-161.	1.5	0
177	Intertube effects on one-dimensional correlated state of metallic single-wall carbon nanotubes probed by C13 NMR. Physical Review B, 2017, 95, .	1.1	0
178	Position Control and Gas Source CVD Growth Technologies of 2D MX<inf>2</inf> Materials for Real LSI Applications. , 2018, , .		0
179	Growth and characterization of in-plane heterostructures based on two-dimensional materials. , 2019, , .		0
180	The 2D Materials Used for Nanodevice Applications: Utilizing Aggressively Scaled Transistors. IEEE Nanotechnology Magazine, 2019, 13, 39-42.	0.9	0

#	Article	IF	Citations
181	High-harmonic generation in monolayer WSe2 under photo-carrier doping. , 2021, , .		0
182	Roomâ€Temperature Chiral Lightâ€Emitting Diode Based on Strained Monolayer Semiconductors (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10	11.1	0
183	Ultrafast dynamics of light-harvesting function of Î²-carotene in carbon nanotube. Springer Series in Chemical Physics, 2009, , 610-612.	0.2	0
184	Growth of Two-dimensional Materials and Their In-plane Heterostructures by Thermal Chemical Vapor Deposition. Vacuum and Surface Science, 2019, 62, 593-598.	0.0	0
185	Photo-carrier doping effect on high-order harmonic generation in monolayer WSe2. , 2020, , .		0
186	Chemical Vapor Deposition of Atomically-thin Layered and Wired Transition Metal Chalcogenides. Vacuum and Surface Science, 2022, 65, 196-201.	0.0	0
187	(Invited, Digital Presentation) Atomically Precise Synthesis of One-Dimensional Transition Metal Chalcogenides Using Nano-Test-Tubes. ECS Meeting Abstracts, 2022, MA2022-01, 769-769.	0.0	0