

Yuhei Miyauchi

List of Publications by Year in Descending Order

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

122
papers

7,440⁰
citations

44
h-index

84
g-index

131
ext. papers

8,287
ext. citations

8.2
avg, IF

6.09
L-index

#	Paper	IF	Citations
122	Theory of exciton thermal radiation in semiconducting single-walled carbon nanotubes. <i>Optics Letters</i> , 2021 , 46, 3021-3024	3	0
121	Magnetic Field Induced Inter-Valley Trion Dynamics in Monolayer 2D Semiconductor. <i>Advanced Functional Materials</i> , 2021 , 31, 2006064	15.6	2
120	Resonant Coupling of a Moiré Exciton to a Phonon in a WSe/MoSe Heterobilayer. <i>Nano Letters</i> , 2021 , 21, 5938-5944	11.5	3
119	Room-Temperature Chiral Light-Emitting Diode Based on Strained Monolayer Semiconductors. <i>Advanced Materials</i> , 2021 , 33, e2100601	24	4
118	Room-Temperature Chiral Light-Emitting Diode Based on Strained Monolayer Semiconductors (Adv. Mater. 36/2021). <i>Advanced Materials</i> , 2021 , 33, 2170282	24	
117	Van der Waals Heterostructures: Controllable Magnetic Proximity Effect and Charge Transfer in 2D Semiconductor and Double-Layered Perovskite Manganese Oxide van der Waals Heterostructure (Adv. Mater. 50/2020). <i>Advanced Materials</i> , 2020 , 32, 2070379	24	
116	Observation of Drastic Electronic-Structure Change in a One-Dimensional Moiré Superlattice. <i>Physical Review Letters</i> , 2020 , 124, 106101	7.4	14
115	Sonochemical reaction to control the near-infrared photoluminescence properties of single-walled carbon nanotubes. <i>Nanoscale</i> , 2020 , 12, 6263-6270	7.7	7
114	Bright and highly valley polarized trions in chemically doped monolayer MoS ₂ . <i>Applied Physics Express</i> , 2020 , 13, 035002	2.4	2
113	Step-Growth Annulative Extension Polymerization for Synthesis of Cove-Type Graphene Nanoribbons. <i>Journal of the American Chemical Society</i> , 2020 , 142, 1686-1691	16.4	19
112	Carbon Nanotube Photoluminescence Modulation by Local Chemical and Supramolecular Chemical Functionalization. <i>Accounts of Chemical Research</i> , 2020 , 53, 1846-1859	24.3	26
111	Controllable Magnetic Proximity Effect and Charge Transfer in 2D Semiconductor and Double-Layered Perovskite Manganese Oxide van der Waals Heterostructure. <i>Advanced Materials</i> , 2020 , 32, e2003501	24	12
110	Exciton diffusion in hBN-encapsulated monolayer MoSe ₂ . <i>Physical Review B</i> , 2020 , 102,	3.3	5
109	Machine-Learning Analysis to Predict the Exciton Valley Polarization Landscape of 2D Semiconductors. <i>ACS Nano</i> , 2019 , 13, 12687-12693	16.7	10
108	Photostability of Monolayer Transition-Metal Dichalcogenides in Ambient Air and Acidic/Basic Aqueous Solutions. <i>ACS Omega</i> , 2019 , 4, 10322-10327	3.9	6
107	Living annulative extension polymerization for graphene nanoribbon synthesis. <i>Nature</i> , 2019 , 571, 387-392	50.4	56
106	Ultrafast dynamics of bright and dark positive trions for valley polarization in monolayer WSe ₂ . <i>Physical Review B</i> , 2019 , 99,	3.3	4

105	Restoring the intrinsic optical properties of CVD-grown MoS monolayers and their heterostructures. <i>Nanoscale</i> , 2019 , 11, 12798-12803	7.7	20
104	Continuous Control and Enhancement of Excitonic Valley Polarization in Monolayer WSe ₂ by Electrostatic Doping. <i>Advanced Functional Materials</i> , 2019 , 29, 1900260	15.6	22
103	Planar Perovskite Solar Cells with High Efficiency and Fill Factor Obtained Using Two-Step Growth Process. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 15680-15687	9.5	12
102	Photon Energy Up-conversion in Carbon Nanotubes. <i>Nanostructure Science and Technology</i> , 2019 , 537-549	9.9	9
101	Graphene Nanoribbon Dielectric Passivation Layers for Graphene Electronics. <i>ACS Applied Nano Materials</i> , 2019 , 2, 4825-4831	5.6	13
100	Strength of carbon nanotubes depends on their chemical structures. <i>Nature Communications</i> , 2019 , 10, 3040	17.4	70
99	Phonon-mediated intervalley relaxation of positive trions in monolayer WSe ₂ . <i>Physical Review B</i> , 2019 , 100,	3.3	3
98	Experimental Evidence of Anisotropic and Stable Charged Excitons (Trions) in Atomically Thin 2D ReS ₂ . <i>Advanced Functional Materials</i> , 2019 , 29, 1905961	15.6	12
97	Direct and Indirect Exciton Dynamics in Few-Layered ReS ₂ Revealed by Photoluminescence and Pump-Probe Spectroscopy. <i>Advanced Functional Materials</i> , 2019 , 29, 1806169	15.6	30
96	Self-Aligned and Scalable Growth of Monolayer WSe ₂ /MoS ₂ Lateral Heterojunctions. <i>Advanced Functional Materials</i> , 2018 , 28, 1706860	15.6	36
95	Photoluminescence 2018 , 471-476		
94	Unidirectional molecular assembly alignment on graphene enabled by nanomechanical symmetry breaking. <i>Scientific Reports</i> , 2018 , 8, 2333	4.9	4
93	Long radiative lifetimes of excitons in monolayer transition-metal dichalcogenides MX ₂ (M= Mo, W; X= S, Se). <i>Applied Physics Express</i> , 2018 , 11, 015201	2.4	17
92	Roles of Polymer Layer in Enhanced Photovoltaic Performance of Perovskite Solar Cells via Interface Engineering. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1701256	4.6	46
91	Carrier Transport and Photoresponse in GeSe/MoS Heterojunction p-n Diodes. <i>Small</i> , 2018 , 14, e1704559	11	23
90	Ultra-narrow-band near-infrared thermal exciton radiation in intrinsic one-dimensional semiconductors. <i>Nature Communications</i> , 2018 , 9, 3144	17.4	6
89	High Bending Durability of Efficient Flexible Perovskite Solar Cells Using Metal Oxide Electron Transport Layer. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 17088-17095	3.8	21
88	Efficient Photocarrier Transfer and Effective Photoluminescence Enhancement in Type I Monolayer MoTe ₂ /WSe ₂ Heterostructure. <i>Advanced Functional Materials</i> , 2018 , 28, 1801021	15.6	45

87	Synthesis and Size-Dependent Properties of [12], [16], and [24]Carbon Nanobelts. <i>Journal of the American Chemical Society</i> , 2018 , 140, 10054-10059	16.4	95
86	Photoluminescence quantum yields for atomically thin-layered ReS ₂ : Identification of indirect-bandgap semiconductors. <i>Applied Physics Letters</i> , 2018 , 113, 121112	3.4	20
85	pH-Dependent Photoluminescence Properties of Monolayer Transition-Metal Dichalcogenides Immersed in an Aqueous Solution. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 13175-13181	3.8	9
84	Evidence for line width and carrier screening effects on excitonic valley relaxation in 2D semiconductors. <i>Nature Communications</i> , 2018 , 9, 2598	17.4	33
83	Highly Efficient and Stable Perovskite Solar Cells by Interfacial Engineering Using Solution-Processed Polymer Layer. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 1562-1568	3.8	135
82	Evaluation of photoluminescence quantum yield of monolayer WSe ₂ using reference dye of 3-borylbithiophene derivative. <i>Physica Status Solidi (B): Basic Research</i> , 2017 , 254, 1600563	1.3	14
81	Synthesis of a carbon nanobelt. <i>Science</i> , 2017 , 356, 172-175	33.3	301
80	Thermal dissociation of inter-layer excitons in MoS/MoSe hetero-bilayers. <i>Nanoscale</i> , 2017 , 9, 6674-6679	7.7	50
79	Observation of biexcitonic emission at extremely low power density in tungsten disulfide atomic layers grown on hexagonal boron nitride. <i>Scientific Reports</i> , 2017 , 7, 322	4.9	25
78	Anisotropic optical and electronic properties of two-dimensional layered germanium sulfide. <i>Nano Research</i> , 2017 , 10, 546-555	10	104
77	Polarization-sensitive and broadband germanium sulfide photodetectors with excellent high-temperature performance. <i>Nanoscale</i> , 2017 , 9, 12425-12431	7.7	38
76	Tuning of the photoluminescence and up-conversion photoluminescence properties of single-walled carbon nanotubes by chemical functionalization. <i>Nanoscale</i> , 2016 , 8, 16916-16921	7.7	37
75	Homogeneous linewidth broadening and exciton dephasing mechanism in MoTe ₂ . <i>Physical Review B</i> , 2016 , 93,	3.3	29
74	Evidence for Fast Interlayer Energy Transfer in MoSe ₂ /WS ₂ Heterostructures. <i>Nano Letters</i> , 2016 , 16, 4087-93	11.5	145
73	Single-Chirality Separation and Optical Properties of (5,4) Single-Wall Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 10705-10710	3.8	27
72	Upconversion photoluminescence imaging and spectroscopy of individual single-walled carbon nanotubes. <i>Applied Physics Express</i> , 2016 , 9, 045103	2.4	8
71	Fabrication and In Situ Transmission Electron Microscope Characterization of Free-Standing Graphene Nanoribbon Devices. <i>ACS Nano</i> , 2016 , 10, 1475-80	16.7	26
70	Determination of Precise Redox Properties of Oxygen-Doped Single-Walled Carbon Nanotubes Based on in Situ Photoluminescence Electrochemistry. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 15632-15639	3.8	21

69	Growth and optical properties of Nb-doped WS ₂ monolayers. <i>Applied Physics Express</i> , 2016 , 9, 071201	2.4	44
68	Highly stable perovskite solar cells with an all-carbon hole transport layer. <i>Nanoscale</i> , 2016 , 8, 11882-8	7.7	85
67	Chemical doping modulation of nonlinear photoluminescence properties in monolayer MoS ₂ . <i>Applied Physics Express</i> , 2016 , 9, 055202	2.4	13
66	Construction of Covalent Organic Nanotubes by Light-Induced Cross-Linking of Diacetylene-Based Helical Polymers. <i>Journal of the American Chemical Society</i> , 2016 , 138, 11001-8	16.4	51
65	Enhanced photovoltaic performances of graphene/Si solar cells by insertion of a MoS ₂ thin film. <i>Nanoscale</i> , 2015 , 7, 14476-82	7.7	93
64	Tunable electronic correlation effects in nanotube-light interactions. <i>Physical Review B</i> , 2015 , 92,	3.3	10
63	Efficient near-infrared up-conversion photoluminescence in carbon nanotubes. <i>Nature Communications</i> , 2015 , 6, 8920	17.4	76
62	Considerably improved photovoltaic performance of carbon nanotube-based solar cells using metal oxide layers. <i>Nature Communications</i> , 2015 , 6, 6305	17.4	118
61	Fabrication of Single-Walled Carbon Nanotube/Si Heterojunction Solar Cells with High Photovoltaic Performance. <i>ACS Photonics</i> , 2014 , 1, 360-364	6.3	40
60	Nonlinear photoluminescence spectroscopy of carbon nanotubes with localized exciton states. <i>ACS Nano</i> , 2014 , 8, 11254-60	16.7	41
59	Nonlinear photoluminescence in atomically thin layered WSe ₂ arising from diffusion-assisted exciton-exciton annihilation. <i>Physical Review B</i> , 2014 , 90,	3.3	168
58	Redox properties of a single (7,5) single-walled carbon nanotube determined by an in situ photoluminescence spectroelectrochemical method. <i>Nanoscale</i> , 2014 , 6, 12798-804	7.7	7
57	Excitonic Photoluminescence from Nanodisc States in Graphene Oxides. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 1754-9	6.4	47
56	Drastic Change in Photoluminescence Properties of Graphene Quantum Dots by Chromatographic Separation. <i>Advanced Optical Materials</i> , 2014 , 2, 983-989	8.1	59
55	Rayleigh scattering studies on inter-layer interactions in structure-defined individual double-wall carbon nanotubes. <i>Nano Research</i> , 2014 , 7, 1548-1555	10	14
54	Nonlinear photoluminescence properties of trions in hole-doped single-walled carbon nanotubes. <i>Physical Review B</i> , 2014 , 89,	3.3	13
53	Brightening of excitons in carbon nanotubes on dimensionality modification. <i>Nature Photonics</i> , 2013 , 7, 715-719	33.9	173
52	Photoluminescence studies on exciton photophysics in carbon nanotubes. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 6499	7.1	44

51	Tunable photoluminescence of monolayer MoS ₂ via chemical doping. <i>Nano Letters</i> , 2013 , 13, 5944-8	11.5	988
50	Temperature dependence of photoluminescence spectra in hole-doped single-walled carbon nanotubes: Implications of trion localization. <i>Physical Review B</i> , 2013 , 87,	3.3	27
49	Carbon atoms in ethanol do not contribute equally to formation of single-walled carbon nanotubes. <i>ACS Nano</i> , 2013 , 7, 3095-103	16.7	39
48	Exploring the Origin of Blue and Ultraviolet Fluorescence in Graphene Oxide. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 2035-40	6.4	57
47	Enhancement Mechanism of the Photovoltaic Conversion Efficiency of Single-Walled Carbon Nanotube/Si Solar Cells by HNO ₃ Doping. <i>Applied Physics Express</i> , 2013 , 6, 102301	2.4	16
46	Rapid Single-Stage Separation of Micrometer-Long and High-Purity Semiconducting Carbon Nanotubes by Gel Filtration. <i>Applied Physics Express</i> , 2013 , 6, 065101	2.4	7
45	Changing photoluminescence spectra of graphene oxide by centrifugation treatments. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2013 , 10, 1600-1603		1
44	Empirical prediction of electronic potentials of single-walled carbon nanotubes with a specific chirality (n,m). <i>Scientific Reports</i> , 2013 , 3, 2959	4.9	45
43	Important Spectral and Polarized Properties of Semiconducting SWNT Photoluminescence 2013 , 1-21		
42	Observation of negative and positive trions in the electrochemically carrier-doped single-walled carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2012 , 134, 14461-6	16.4	66
41	Dispersion-Process Effects on the Photoluminescence Quantum Yields of Single-Walled Carbon Nanotubes Dispersed Using Aromatic Polymers. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 10282-10286 ^{3.8}		29
40	All-optical structure assignment of individual single-walled carbon nanotubes from Rayleigh and Raman scattering measurements. <i>Physica Status Solidi (B): Basic Research</i> , 2012 , 249, 2436-2441	1.3	8
39	Analysis of the Photovoltaic Properties of Single-Walled Carbon Nanotube/Silicon Heterojunction Solar Cells. <i>Applied Physics Express</i> , 2012 , 5, 042304	2.4	29
38	Nonradiative exciton decay dynamics in hole-doped single-walled carbon nanotubes. <i>Physical Review B</i> , 2010 , 81,	3.3	22
37	Electron-hole asymmetry in single-walled carbon nanotubes probed by direct observation of transverse quasidark excitons. <i>Physical Review B</i> , 2010 , 81,	3.3	15
36	Plasmon-assisted photoluminescence enhancement of single-walled carbon nanotubes on metal surfaces. <i>Applied Physics Letters</i> , 2010 , 97, 063110	3.4	18
35	Polarization dependence of radial breathing mode peaks in resonant Raman spectra of vertically aligned single-walled carbon nanotubes. <i>Physical Review B</i> , 2010 , 81,	3.3	16
34	Length-Dependent Photoluminescence Lifetimes in Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 12905-12908	3.8	29

33	Symmetry-induced nonequilibrium distributions of bright and dark exciton states in single carbon nanotubes. <i>Physical Review B</i> , 2009 , 80,	3.3	30
32	Radiative lifetimes and coherence lengths of one-dimensional excitons in single-walled carbon nanotubes. <i>Physical Review B</i> , 2009 , 80,	3.3	48
31	Femtosecond excitation correlation spectroscopy of single-walled carbon nanotubes: Analysis based on nonradiative multiexciton recombination processes. <i>Physical Review B</i> , 2009 , 80,	3.3	10
30	Acetylene-Accelerated Alcohol Catalytic Chemical Vapor Deposition Growth of Vertically Aligned Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 7511-7515	3.8	76
29	Surfactant-Stabilized Single-Walled Carbon Nanotubes Using Triphenylene Derivatives Remain Individually Dispersion in Both Liquid and Dried Solid States. <i>Applied Physics Express</i> , 2009 , 2, 055501	2.4	12
28	Selective optical property modification of double-walled carbon nanotubes by fluorination. <i>ACS Nano</i> , 2008 , 2, 485-8	16.7	60
27	Temperature Dependence of Raman Scattering from Single-Walled Carbon Nanotubes: Undefined Radial Breathing Mode Peaks at High Temperatures. <i>Japanese Journal of Applied Physics</i> , 2008 , 47, 2010-2015	1.4	49
26	Improved Bath Sonication Method for Dispersion of Individual Single-Walled Carbon Nanotubes Using New Triphenylene-Based Surfactant. <i>Japanese Journal of Applied Physics</i> , 2008 , 47, 2000-2004	1.4	33
25	Vertically Aligned ¹³ C Single-Walled Carbon Nanotubes Synthesized by No-Flow Alcohol Chemical Vapor Deposition and their Root Growth Mechanism. <i>Japanese Journal of Applied Physics</i> , 2008 , 47, 1971-1974	1.4	24
24	Magnetic brightening of carbon nanotube photoluminescence through symmetry breaking. <i>Nano Letters</i> , 2007 , 7, 1851-5	11.5	110
23	Dependence of exciton transition energy of single-walled carbon nanotubes on surrounding dielectric materials. <i>Chemical Physics Letters</i> , 2007 , 442, 394-399	2.5	93
22	MAGNETO SPECTROSCOPY OF SINGLE-WALLED CARBON NANOTUBES. <i>International Journal of Modern Physics B</i> , 2007 , 21, 1189-1197	1.1	1
21	EXTRACTION OF METALLIC NANOTUBES OF ZEOLITE-SUPPORTED SINGLE-WALLED CARBON NANOTUBES SYNTHESIZED FROM ALCOHOL. <i>Nano</i> , 2007 , 02, 221-226	1.1	6
20	Identification of an excitonic phonon sideband by photoluminescence spectroscopy of single-walled carbon-13 nanotubes. <i>Physical Review B</i> , 2006 , 74,	3.3	73
19	Exciton localization of single-walled carbon nanotubes revealed by femtosecond excitation correlation spectroscopy. <i>Physical Review Letters</i> , 2006 , 97, 257401	7.4	49
18	Changes in the fluorescence spectrum of individual single-wall carbon nanotubes induced by light-assisted oxidation with hydrogen peroxide. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 8935-40	3.4	20
17	Cross-polarized optical absorption of single-walled nanotubes by polarized photoluminescence excitation spectroscopy. <i>Physical Review B</i> , 2006 , 74,	3.3	93
16	Magneto-optical spectroscopy of excitons in carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2006 , 243, 3192-3196	1.3	2

15	Photoluminescence intensity of single-wall carbon nanotubes. <i>Carbon</i> , 2006 , 44, 873-879	10.4	136
14	ACCVD Growth, Raman and Photoluminescence Spectroscopy of Isotopically Modified Single-Walled Carbon Nanotubes. <i>AIP Conference Proceedings</i> , 2005 ,	0	3
13	Photoluminescence intermittency in an individual single-walled carbon nanotube at room temperature. <i>Applied Physics Letters</i> , 2005 , 86, 123116	3.4	50
12	Direct Synthesis of Single-Walled Carbon Nanotubes on Silicon and Quartz-Based Systems. <i>Japanese Journal of Applied Physics</i> , 2004 , 43, 1221-1226	1.4	26
11	Growth of vertically aligned single-walled carbon nanotube films on quartz substrates and their optical anisotropy. <i>Chemical Physics Letters</i> , 2004 , 385, 298-303	2.5	474
10	Growth of single-walled carbon nanotubes from size-selected catalytic metal particles. <i>Applied Physics A: Materials Science and Processing</i> , 2004 , 79, 787-790	2.6	18
9	Cold wall CVD generation of single-walled carbon nanotubes and in situ Raman scattering measurements of the growth stage. <i>Chemical Physics Letters</i> , 2004 , 386, 89-94	2.5	77
8	Fluorescence spectroscopy of single-walled carbon nanotubes synthesized from alcohol. <i>Chemical Physics Letters</i> , 2004 , 387, 198-203	2.5	281
7	Dispersion of Single-Walled Carbon Nanotube Bundles in Nonaqueous Solution. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 18395-18397	3.4	98
6	Generation of single-walled carbon nanotubes from alcohol and generation mechanism by molecular dynamics simulations. <i>Journal of Nanoscience and Nanotechnology</i> , 2004 , 4, 360-7	1.3	24
5	Characterization of single-walled carbon nanotubes catalytically synthesized from alcohol. <i>Chemical Physics Letters</i> , 2003 , 374, 53-58	2.5	158
4	Synthesis of single-walled carbon nanotubes with narrow diameter-distribution from fullerene. <i>Chemical Physics Letters</i> , 2003 , 375, 553-559	2.5	31
3	Direct synthesis of high-quality single-walled carbon nanotubes on silicon and quartz substrates. <i>Chemical Physics Letters</i> , 2003 , 377, 49-54	2.5	183
2	Optical characterization of single-walled carbon nanotubes synthesized by catalytic decomposition of alcohol. <i>New Journal of Physics</i> , 2003 , 5, 149-149	2.9	53
1	Low-temperature synthesis of high-purity single-walled carbon nanotubes from alcohol. <i>Chemical Physics Letters</i> , 2002 , 360, 229-234	2.5	857