

# Takeshi Koyama

## List of Publications by Year in Descending Order

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**Version:** 2024-04-27

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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.

42  
papers

392  
citations

12  
h-index

18  
g-index

46  
ext. papers

473  
ext. citations

5.1  
avg, IF

3.22  
L-index

#	Paper	IF	Citations
42	Femtosecond photoluminescence from monolayer MoS <sub>2</sub> : Time-domain study on exciton diffusion. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	2
41	Photoluminescence Enhancement Exceeding 10-Fold from Graphene via an Additional Layer: Photoluminescence from Monolayer and Bilayer Graphene Epitaxially Grown on SiC. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 11014-11022	3.8	2
40	Relaxation dynamics of hot electrons in the transition metals Au, Ag, Cu, Pt, Pd, and Ni studied by ultrafast luminescence spectroscopy. <i>Journal of Applied Physics</i> , <b>2021</b> , 130, 025101	2.5	0
39	Electronic States of Electrochemically Doped Single-Layer Graphene Probed through Fano Resonance Effects in Raman Scattering. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 26428-26433	3.8	2
38	Effect of emissivity on ultrafast luminescence spectra in silver. <i>Journal of Applied Physics</i> , <b>2020</b> , 128, 203103	3.3	1
37	Excitation Energy Transfer by Electron Exchange via Two-Step Electron Transfer between a Single-Walled Carbon Nanotube and Encapsulated Magnesium Porphyrin. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 19406-19412	3.8	2
36	Isolation of Single-Wired Transition-Metal Monochalcogenides by Carbon Nanotubes. <i>Nano Letters</i> , <b>2019</b> , 19, 4845-4851	11.5	31
35	Different Molecular Arrangement of Perylene in Metallic and Semiconducting Carbon Nanotubes: Impact of van der Waals Interaction. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 5805-5812	3.8	10
34	Acceleration of Photocarrier Relaxation in Graphene Achieved by Epitaxial Growth: Ultrafast Photoluminescence Decay of Monolayer Graphene on SiC. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 19273-19279	3.8	7
33	Energetics and electronic structures of perylene confined in carbon nanotubes. <i>Royal Society Open Science</i> , <b>2018</b> , 5, 180359	3.3	2
32	Hydrogen-surfactant-mediated epitaxy of Ge <sub>1-x</sub> Sn <sub>x</sub> layer and its effects on crystalline quality and photoluminescence property. <i>Japanese Journal of Applied Physics</i> , <b>2017</b> , 56, 01AB05	1.4	2
31	Facile Synthetic Route to Atomically Thin Conductive Wires from Single-Species Molecules in One-Dimensionally Confined Space: Doped Conjugated Polymers inside Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 1702-1706	6.4	8
30	Ultrafast excitation energy transfer from encapsulated quaterylene to single-walled carbon nanotube. <i>Journal of Luminescence</i> , <b>2016</b> , 169, 645-648	3.8	2
29	Two-Step Excitation Triggered by One-Photon Absorption on Linear Dispersion in Monolayer Graphene. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 11225-11229	3.8	1
28	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
27	Near-Infrared Photoluminescence Properties of Endohedral Mono- and Dithulium Metallofullerenes. <i>ACS Nano</i> , <b>2016</b> , 10, 4282-7	16.7	16
26	Photoluminescence of poly(3,4-ethylenedioxythiophene)/poly(styrenesulfonate) in the visible region. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 8307-8310	7.1	18

25	Microscopic Mobility of Polarons in Chemically Doped Polythiophenes Measured by Employing Photoluminescence Spectroscopy. <i>ACS Photonics</i> , <b>2014</b> , 1, 655-661	6.3	11
24	Synthesis and Photophysics of Quaterylene Molecules in Single-Walled Carbon Nanotubes: Excitation Energy Transfer between a Nanoscale Cylinder and Encapsulated Molecules. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 21671-21681	3.8	12
23	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
22	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
21	Near-Infrared photoluminescence in the femtosecond time region in monolayer graphene on SiO <sub>2</sub> <i>ACS Nano</i> , <b>2013</b> , 7, 2335-43	16.7	22
20	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
19	Trion dynamics in hole-doped single-walled carbon nanotubes <b>2013</b> ,		2
18	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
17	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
16	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
15	Ultrafast Exciton Energy Transfer in Bundles of Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry Letters</i> , <b>2011</b> , 2, 127-132	6.4	29
14	Femtosecond luminescence decay due to exciton energy transfer in single-walled carbon nanotube bundles. <i>Journal of Luminescence</i> , <b>2011</b> , 131, 494-497	3.8	4
13	Dynamics of nuclear wave packets at the F-center in alkali halides. <i>Reports on Progress in Physics</i> , <b>2011</b> , 74, 076502	14.4	19
12	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
11	Second 2s <sub>1/2</sub> p level crossing at the F center in KCl evidenced by frequency upconversion spectroscopy. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	2
10	Femtosecond Depolarization of Hot Luminescence from the F-Center in KCl. <i>Journal of the Physical Society of Japan</i> , <b>2009</b> , 78, 075002	1.5	3
9	Dynamics of nuclear wave packet in the excited state of KCl F centers. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2009</b> , 6, 108-111		
8	Observation of nuclear wave packets in the excited state of the F-center in alkali halides. <i>Journal of Luminescence</i> , <b>2009</b> , 129, 1435-1440	3.8	1

- 7 Nuclear wave-packet oscillations at the F center in KCl and RbCl. *Physical Review B*, **2008**, 78, 3-3 9
- 6 Dynamical behavior of the wave packets on adiabatic potential surfaces observed by femtosecond luminescence spectroscopy. *Journal of Luminescence*, **2007**, 122-123, 517-521 3-8
- 5 Nuclear wave-packet dynamics on nearly degenerate two adiabatic potential energy surfaces in the excited state of KI F centers. *Physical Review B*, **2007**, 76, 3-3 9
- 4 Selective observation of the wave-packet dynamics in the excited states at KBr F centers by luminescence experiments. *Physical Review B*, **2006**, 73, 3-3 7
- 3 Persistent nuclear wave packet oscillation coexistent with incoherent vibrational population at excited F centers in KI. *Journal of Chemical Physics*, **2006**, 124, 221104 3-9 7
- 2 Wave-packet oscillation in the excited state of KBr F centers. *Journal of Luminescence*, **2006**, 119-120, 43-46 3-8 1
- 1 Real-Time Observation on Femtosecond Depolarization of Room-Temperature Luminescence in KIFCenters. *Journal of the Physical Society of Japan*, **2006**, 75, 045001 1-5 2