

Satoru Konabe

List of Publications by Citations

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48
papers

586
citations

14
h-index

23
g-index

50
ext. papers

690
ext. citations

3.8
avg. IF

4.07
L-index

#	Paper	IF	Citations
48	Enhanced chemical reactivity of graphene induced by mechanical strain. <i>ACS Nano</i> , 2013 , 7, 10335-43	16.7	130
47	Brightening of triplet dark excitons by atomic hydrogen adsorption in single-walled carbon nanotubes observed by photoluminescence spectroscopy. <i>Physical Review Letters</i> , 2010 , 105, 157403	7.4	42
46	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
45	Modulation of electrical potential and conductivity in an atomic-layer semiconductor heterojunction. <i>Scientific Reports</i> , 2016 , 6, 31223	4.9	32
44	Engineering Valley Polarization of Monolayer WS ₂ : A Physical Doping Approach. <i>Small</i> , 2019 , 15, e1805503	5.3	30
43	Valley photothermoelectric effects in transition-metal dichalcogenides. <i>Physical Review B</i> , 2014 , 90,	3.3	29
42	Effect of Coulomb interactions on optical properties of monolayer transition-metal dichalcogenides. <i>Physical Review B</i> , 2014 , 90,	3.3	28
41	Crossover from Ballistic to Diffusive Thermal Transport in Carbon Nanotubes. <i>Applied Physics Express</i> , 2009 , 2, 095003	2.4	27
40	Landau damping: Instability mechanism of superfluid Bose gases moving in optical lattices. <i>Physical Review A</i> , 2006 , 74,	2.6	23
39	Multiple exciton generation by a single photon in single-walled carbon nanotubes. <i>Physical Review Letters</i> , 2012 , 108, 227401	7.4	20
38	Significant enhancement of the thermoelectric performance of phosphorene through the application of tensile strain. <i>Applied Physics Express</i> , 2015 , 8, 015202	2.4	18
37	Screening effects due to carrier doping on valley relaxation in transition metal dichalcogenide monolayers. <i>Applied Physics Letters</i> , 2016 , 109, 073104	3.4	17
36	Robustness and Fragility of a Linear Dispersion Band of Bilayer Graphene under an Electric Field. <i>Journal of the Physical Society of Japan</i> , 2012 , 81, 113702	1.5	15
35	Surface plasmon polaritons in thin-film Weyl semimetals. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 305001	1.8	14
34	Modulations of thermal properties of graphene by strain-induced phonon engineering. <i>Japanese Journal of Applied Physics</i> , 2017 , 56, 025102	1.4	12
33	Graphene-diamond hybrid structure as spin-polarized conducting wire with thermally efficient heat sinks. <i>Applied Physics Letters</i> , 2012 , 100, 233101	3.4	12
32	Quasiparticle band gaps of boron nitride nanoribbons. <i>Physical Review B</i> , 2012 , 85,	3.3	10

31	Confinement Effect of Sub-nanometer Difference on Melting Point of Ice-Nanotubes Measured by Photoluminescence Spectroscopy. <i>ACS Nano</i> , 2019 , 13, 1177-1182	16.7	9
30	Enhanced photocurrent in single-walled carbon nanotubes by exciton interactions. <i>Applied Physics Letters</i> , 2013 , 102, 113110	3.4	8
29	Auger-Recombination Induced Photocurrents in Single-Walled Carbon Nanotubes. <i>Applied Physics Express</i> , 2009 , 2, 092202	2.4	8
28	Thermoelectric properties of bilayer phosphorene under tensile strain. <i>Surface and Interface Analysis</i> , 2016 , 48, 1231-1234	1.5	5
27	High-Efficiency Photoelectric Conversion in GrapheneDiamond Hybrid Structures: Model and First-Principles Calculations. <i>Applied Physics Express</i> , 2013 , 6, 045104	2.4	5
26	Carrier localization length in edge-disordered graphene nanoribbons with sub-100 nm length. <i>Journal of Applied Physics</i> , 2016 , 119, 024301	2.5	5
25	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
24	Effects of Chirality and Defect Density on the Intermediate Frequency Raman Modes of Individually Suspended Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 9184-9190	3.8	4
23	Piezoelectric coefficients of bulk 3R transition metal dichalcogenides. <i>Japanese Journal of Applied Physics</i> , 2017 , 56, 098002	1.4	4
22	Method for probing the magnetic state of nanomaterials encapsulated in carbon nanotubes. <i>Applied Physics Letters</i> , 2011 , 98, 073109	3.4	4
21	Nonlinear optical responses induced by Auger ionization in single-walled carbon nanotubes. <i>New Journal of Physics</i> , 2012 , 14, 023053	2.9	4
20	Characterization of a Weyl semimetal using a unique feature of surface plasmon polaritons. <i>Physical Review B</i> , 2020 , 102,	3.3	4
19	Edge-disorder effects on electric transport in metallic graphene nanoribbons at finite temperature. <i>Surface and Interface Analysis</i> , 2016 , 48, 1214-1216	1.5	3
18	Phonon-mediated intervalley relaxation of positive trions in monolayer WSe ₂ . <i>Physical Review B</i> , 2019 , 100,	3.3	3
17	Super-micron-scale atomistic simulation for electronic transport with atomic vibration: Unified approach from quantum to classical transport. <i>Physical Review B</i> , 2017 , 96,	3.3	3
16	Interacting Electron Wave Packet Dynamics in a Two-Dimensional Nanochannel. <i>Applied Physics Express</i> , 2013 , 6, 065201	2.4	3
15	Photo-Assisted Electronic Transport in Impurity-Doped Carbon Nanotubes. <i>Japanese Journal of Applied Physics</i> , 2009 , 48, 08JB02	1.4	3
14	Variation in characteristics of graphene nanoribbon field-effect transistors caused by edge disorder: Computational simulation of atomistic device. <i>Applied Physics Express</i> , 2018 , 11, 095102	2.4	2

13	Influence of Coulomb Blockade on Wave Packet Dynamics in Nanoscale Structures. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 04CJ06	1.4	2
12	Auger ionization in carbon nanotubes and graphene nanoribbons under laser irradiation. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011 , 8, 570-572		2
11	Photocurrents in Carbon Nanotubes with Various Diameters under High-Intensity Laser Irradiation. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 02BD06	1.4	2
10	Effects of localized spins on excitons in single-walled carbon nanotubes with imperfections. <i>New Journal of Physics</i> , 2011 , 13, 083028	2.9	2
9	Quantum decoherence in electronic current flowing through carbon nanotubes induced by thermal atomic vibrations. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 065102	1.4	1
8	Thermal Transport and Thermoelectric Properties of Graphene and Related Materials. <i>Journal of the Vacuum Society of Japan</i> , 2014 , 57, 457-460		1
7	Periodic oscillation of photocurrents in single-walled carbon nanotubes. <i>Applied Physics Letters</i> , 2011 , 99, 223103	3.4	1
6	Multi-Electron Wave Packet Dynamics in Applied Electric Field. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 02BJ01	1.4	1
5	Hydrodynamics of Superfluid Bose Gases in an Optical Lattice at Finite Temperatures. <i>Journal of Low Temperature Physics</i> , 2007 , 148, 453-458	1.3	1
4	Theory of exciton thermal radiation in semiconducting single-walled carbon nanotubes. <i>Optics Letters</i> , 2021 , 46, 3021-3024	3	0
3	Temperature dependence of photoluminescence spectra from a suspended single-walled carbon nanotube with water adsorption layer. <i>Journal of Applied Physics</i> , 2021 , 129, 014301	2.5	0
2	Development of a New Quantum Transport Simulation Method Applicable to Super-micro-scale Systems. <i>Vacuum and Surface Science</i> , 2018 , 61, 360-365	0	
1	Detuning dependence of high-order harmonic generation in monolayer transition metal dichalcogenides. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 04FP11	1.4	