

Takahiro Morimoto

List of Publications by Citations

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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.

46
papers

529
citations

13
h-index

21
g-index

57
ext. papers

629
ext. citations

4.6
avg, IF

3.68
L-index

#	Paper	IF	Citations
46	Length-dependent plasmon resonance in single-walled carbon nanotubes. <i>ACS Nano</i> , 2014 , 8, 9897-904	16.7	67
45	Probing the microscopic structure of bound states in quantum point contacts. <i>Physical Review Letters</i> , 2007 , 99, 136805	7.4	49
44	Nonlocal resonant interaction between coupled quantum wires. <i>Applied Physics Letters</i> , 2003 , 82, 3952-3954	3.4	46
43	Size-dependent cell uptake of carbon nanotubes by macrophages: A comparative and quantitative study. <i>Carbon</i> , 2018 , 127, 93-101	10.4	44
42	Properties of natural rubber reinforced with cellulose nanofibers based on fiber diameter distribution as estimated by differential centrifugal sedimentation. <i>International Journal of Biological Macromolecules</i> , 2019 , 121, 989-995	7.9	29
41	Wet spinning of continuous polymer-free carbon-nanotube fibers with high electrical conductivity and strength. <i>Applied Physics Express</i> , 2016 , 9, 055101	2.4	25
40	Coupling Quantum States through a Continuum: A Mesoscopic Multistate Fano Resonance. <i>Physical Review X</i> , 2012 , 2,	9.1	21
39	Imaging of quantum interference patterns within a quantum point contact. <i>Applied Physics Letters</i> , 2006 , 89, 242109	3.4	20
38	Relationship between Mechanical and Electrical Properties of Continuous Polymer-Free Carbon Nanotube Fibers by Wet-Spinning Method and Nanotube-Length Estimated by Far-Infrared Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 20419-20427	3.8	19
37	Detector backaction on the self-consistent bound state in quantum point contacts. <i>Physical Review B</i> , 2009 , 79,	3.3	19
36	Regular conductance fluctuations indicative of quasi-ballistic transport in bilayer graphene. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 382202	1.8	19
35	Imaging of local structures affecting electrical transport properties of large graphene sheets by lock-in thermography. <i>Science Advances</i> , 2019 , 5, eaau3407	14.3	17
34	Nanotube length and density dependences of electrical and mechanical properties of carbon nanotube fibres made by wet spinning. <i>Carbon</i> , 2019 , 152, 1-6	10.4	14
33	Nonlocal bias spectroscopy of the self-consistent bound state in quantum point contacts near pinch off. <i>Applied Physics Letters</i> , 2009 , 94, 213103	3.4	13
32	Resonantly enhanced nonlinear conductance in long quantum point contacts near pinch-off. <i>Physical Review Letters</i> , 2006 , 97, 096801	7.4	13
31	Optical resonance in far-infrared spectra of multiwalled carbon nanotubes. <i>Applied Physics Express</i> , 2015 , 8, 055101	2.4	12
30	Confinement of Hydrogen Molecules at Graphene/Metal Interface by Electrochemical Hydrogen Evolution Reaction. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 5300-5307	3.8	9

29	Improved thermal stability of silicone rubber nanocomposites with low filler content, achieved by well-dispersed carbon nanotubes. <i>Composites Communications</i> , 2020 , 22, 100482	6.7	9
28	Effect of surfactants and dispersion methods on properties of single-walled carbon nanotube fibers formed by wet-spinning. <i>Applied Physics Express</i> , 2017 , 10, 055101	2.4	8
27	Effective energy gap of the double-walled carbon nanotubes with field effect transistors ambipolar characteristics. <i>Applied Physics Letters</i> , 2012 , 100, 043107	3.4	8
26	Nondestructive real-space imaging of energy dissipation distributions in randomly networked conductive nanomaterials. <i>Scientific Reports</i> , 2019 , 9, 14572	4.9	7
25	Visualizing electrical network in microinjection-molded CNT polycarbonate composite. <i>Carbon</i> , 2019 , 153, 136-147	10.4	6
24	Coupled quantum wires as a detector of many-body states below the last conductance plateau. <i>Semiconductor Science and Technology</i> , 2004 , 19, S405-S408	1.8	6
23	Quantitative Surface Characterization of As-Grown and Acid-Treated Single-Walled Carbon Nanotubes: Implications for Functional Materials. <i>ACS Applied Nano Materials</i> , 2021 , 4, 5273-5284	5.6	5
22	Nonuniform functional group distribution of carbon nanotubes studied by energy dispersive X-ray spectrometry imaging in SEM. <i>Nanoscale</i> , 2019 , 11, 21487-21492	7.7	5
21	On the zero-bias anomaly and Kondo physics in quantum point contacts near pinch-off. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 125304	1.8	4
20	Tailoring the electrically conductive network of injection-molded polymer-carbon nanotube composite at low filler content. <i>Materials Today: Proceedings</i> , 2021 , 40, 5-8	1.4	4
19	Outer-Surface Covalent Functionalization of Carbon Nanohorn Spherical Aggregates Assessed by Highly Spatial-Resolved Energy-Dispersive X-ray Spectrometry in Scanning Electron Microscopy. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 25142-25147	3.8	3
18	Aharonov-Bohm effect in the magnetoresistance of a multiwalled carbon nanotube with tunneling contacts. <i>Physical Review B</i> , 2008 , 77,	3.3	3
17	Fractal behaviour in graphene open quantum dot. <i>Journal of Physics: Conference Series</i> , 2008 , 109, 012035.3	3	3
16	N Gas Adsorption Sites of Single-Walled Carbon Nanotube Bundles: Identifying Interstitial Channels at Very Low Relative Pressure. <i>Langmuir</i> , 2021 , 37, 9144-9150	4	3
15	Annealing-induced enhancement of electrical conductivity and electromagnetic interference shielding in injection-molded CNT polymer composites. <i>Polymer</i> , 2022 , 245, 124680	3.9	3
14	Temperature dependence of plasmon resonance in single-walled carbon nanotubes. <i>Physical Review B</i> , 2016 , 93,	3.3	2
13	Quantitative Method for Analyzing Dendritic Carbon Nanotube Agglomerates in Dispersions Using Differential Centrifugal Sedimentation. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 21252-21256	3.8	2
12	Detecting bound spins using coupled quantum point contacts. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 164216	1.8	2

11	Carbon Nanotube Length Distribution Estimation by One-Dimensional Plasmon Resonance for Solid-State Samples. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 19362-19367	3.8	2
10	Quantitative Evidence for the Dependence of Highly Crystalline Single Wall Carbon Nanotube Synthesis on the Growth Method.. <i>Nanomaterials</i> , 2021 , 11,	5.4	2
9	Phenomenological investigation of many-body induced modifications to the one-dimensional density of states of long quantum wires. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 164209	1.8	1
8	Fractal behavior in magnetoconductance in coupled quantum dot systems. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004 , 22, 361-364	3	1
7	Novel many-body transport phenomenon in coupled quantum wires. <i>IEEE Nanotechnology Magazine</i> , 2004 , 3, 110-114	2.6	1
6	Fractal conductance fluctuations in a quantum-dot molecule. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2003 , 19, 221-224	3	1
5	Possible dimensionality transition behavior in localized plasmon resonances of confinement-controlled graphene devices. <i>Journal of Physics Communications</i> , 2021 , 5, 075002	1.2	1
4	Electron scattering by Friedel oscillations in carbon nanotubes. <i>Nano Research</i> , 1	10	0
3	Chaotic Behavior in the Magneto-Resistance of Quantum Dot and Quantum Point Contact. <i>Progress of Theoretical Physics Supplement</i> , 2007 , 166, 127-135		
2	Novel phenomena in one-dimensional non-linear transport in long quantum wires. <i>Journal of Physics: Conference Series</i> , 2006 , 38, 83-86	0.3	
1	The influence of Coulomb interaction in quantum point contacts. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2006 , 34, 557-559	3	