

Radha Boya

List of Publications by Citations

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44
papers

2,247
citations

21
h-index

47
g-index

49
ext. papers

2,830
ext. citations

13.8
avg. IF

4.89
L-index

#	Paper	IF	Citations
44	Anomalously low dielectric constant of confined water. <i>Science</i> , 2018 , 360, 1339-1342	33.3	397
43	Molecular transport through capillaries made with atomic-scale precision. <i>Nature</i> , 2016 , 538, 222-225	50.4	325
42	Size effect in ion transport through angstrom-scale slits. <i>Science</i> , 2017 , 358, 511-513	33.3	246
41	Sieving hydrogen isotopes through two-dimensional crystals. <i>Science</i> , 2016 , 351, 68-70	33.3	173
40	Complete steric exclusion of ions and proton transport through confined monolayer water. <i>Science</i> , 2019 , 363, 145-148	33.3	131
39	Molecular streaming and its voltage control in nanoscale channels. <i>Nature</i> , 2019 , 567, 87-90	50.4	99
38	Functionalized Au ₂₂ clusters: synthesis, characterization, and patterning. <i>ACS Applied Materials & Interfaces</i> , 2009 , 1, 2199-210	9.5	77
37	Ballistic molecular transport through two-dimensional channels. <i>Nature</i> , 2018 , 558, 420-424	50.4	73
36	Metal hierarchical patterning by direct nanoimprint lithography. <i>Scientific Reports</i> , 2013 , 3, 1078	4.9	70
35	Large-area molecular patterning with polymer pen lithography. <i>Nature Protocols</i> , 2013 , 8, 2548-60	18.8	69
34	Flexible palladium-based H ₂ sensor with fast response and low leakage detection by nanoimprint lithography. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 7274-81	9.5	53
33	Flexible and semitransparent strain sensors based on micromolded Pd nanoparticle-carbon stripes. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 2173-8	9.5	43
32	Reconstitutable nanoparticle superlattices. <i>Nano Letters</i> , 2014 , 14, 2162-7	11.5	33
31	Langmuir analysis of nanoparticle polyvalency in DNA-mediated adsorption. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 9532-8	16.4	32
30	A Real Time Microscopy Study of the Growth of Giant Au Microplates. <i>Crystal Growth and Design</i> , 2011 , 11, 320-327	3.5	32
29	Capacitance of Basal Plane and Edge-Oriented Highly Ordered Pyrolytic Graphite: Specific Ion Effects. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 617-623	6.4	29
28	A modified micromolding method for sub-100-nm direct patterning of Pd nanowires. <i>Small</i> , 2009 , 5, 2271-5		29

27	Movable Au microplates as fluorescence enhancing substrates for live cells. <i>Nano Research</i> , 2010 , 3, 738-747	16.7	29
26	A cantilever-free approach to dot-matrix nanoprinting. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 12921-4	11.5	28
25	Metal anion-alkyl ammonium complexes as direct write precursors to produce nanopatterns of metals, nitrides, oxides, sulfides, and alloys. <i>Journal of the American Chemical Society</i> , 2011 , 133, 12706-13	16.4	28
24	Patterned Synthesis of Pd4S: Chemically Robust Electrodes and Conducting Etch Masks. <i>Advanced Functional Materials</i> , 2010 , 20, 879-884	15.6	28
23	Dewetting assisted patterning of polystyrene by soft lithography to create nanotrenches for nanomaterial deposition. <i>ACS Applied Materials & Interfaces</i> , 2009 , 1, 257-60	9.5	21
22	Layer-by-layer assembly of a metallomesogen by dip-pen nanolithography. <i>ACS Nano</i> , 2013 , 7, 2602-9	16.7	19
21	Pd-Assisted Growth of InAs Nanowires. <i>Crystal Growth and Design</i> , 2010 , 10, 4197-4202	3.5	19
20	Metal nanowire grating patterns. <i>Nanoscale</i> , 2010 , 2, 2035-44	7.7	19
19	Metallic Conduction in NiS ₂ Nanocrystalline Structures. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 10462-10467	11.8	18
18	Coexistence of vapor-liquid-solid and vapor-solid-solid growth modes in Pd-assisted InAs nanowires. <i>Small</i> , 2010 , 6, 1935-41	11	17
17	Dithieno[2,3-d;2',3'-d]benzo[2,1-b;3,4-b']dithiophene: a novel building-block for a planar copolymer. <i>Polymer Chemistry</i> , 2016 , 7, 1545-1548	4.9	13
16	Micro- and nanostripes of self-assembled Au nanocrystal superlattices by direct micromolding. <i>Nano Research</i> , 2010 , 3, 537-544	10	12
15	Inkjet printing of palladium alkanethiolates for facile fabrication of metal interconnects and surface-enhanced Raman scattering substrates. <i>Micro and Nano Letters</i> , 2010 , 5, 296	0.9	12
14	Water friction in nanofluidic channels made from two-dimensional crystals. <i>Nature Communications</i> , 2021 , 12, 3092	17.4	10
13	An Electrical Rectifier Based on Au Nanoparticle Array Fabricated Using Direct-Write Electron Beam Lithography. <i>Advanced Functional Materials</i> , 2012 , 22, 2837-2845	15.6	8
12	Gas flow through atomic-scale apertures. <i>Science Advances</i> , 2020 , 6,	14.3	8
11	Large-area ohmic top contact to vertically grown nanowires using a free-standing Au microplate electrode. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 1860-4	9.5	6
10	Intricate nature of Pd nanocrystal/hydrogen interaction investigated using thermolysed Pd hexadecylthiolate films. <i>Sensors and Actuators B: Chemical</i> , 2010 , 149, 345-351	8.5	6

9	Translocation of DNA through Ultrathin Nanoslits. <i>Advanced Materials</i> , 2021 , 33, e2007682	24	6
8	Metal-organic molecular device for non-volatile memory storage. <i>Applied Physics Letters</i> , 2014 , 105, 083103	3.3	5
7	Solution-processed soldering of carbon nanotubes for flexible electronics. <i>Nanotechnology</i> , 2013 , 24, 075301	3.4	4
6	Direct micromolding of Pd micro-stripes for electronic applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 152-7	1.3	3
5	Gas Permeability and Selectivity of a Porous WS ₂ Monolayer. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 25055-25066	3.8	3
4	Abnormal Dielectric Constant of Nanoconfined Water between Graphene Layers in the Presence of Salt. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 1604-1610	3.4	3
3	Hydrocarbon contamination in angstrom-scale channels. <i>Nanoscale</i> , 2021 , 13, 9553-9560	7.7	2
2	Exploring Voltage Mediated Delamination of Suspended 2D Materials as a Cause of Commonly Observed Breakdown. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 430-435	3.8	1
1	Direct Micromolding of Bimetals and Transparent Conducting Oxide Using Metal-TOABr Complexes as Single-Source Precursors. <i>ACS Omega</i> , 2020 , 5, 20739-20745	3.9	1