

Radha Boya

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/7825078/radha-boya-publications-by-year.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

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	Gas Permeability and Selectivity of a Porous WS ₂ Monolayer. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 25055-25066	3.8	3
43	Water friction in nanofluidic channels made from two-dimensional crystals. <i>Nature Communications</i> , 2021 , 12, 3092	17.4	10
42	Hydrocarbon contamination in angström-scale channels. <i>Nanoscale</i> , 2021 , 13, 9553-9560	7.7	2
41	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
40	Translocation of DNA through Ultrathin Nanoslits. <i>Advanced Materials</i> , 2021 , 33, e2007682	24	6
39	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
38	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
37	Gas flow through atomic-scale apertures. <i>Science Advances</i> , 2020 , 6,	14.3	8
36	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
35	Molecular streaming and its voltage control in ångström-scale channels. <i>Nature</i> , 2019 , 567, 87-90	50.4	99
34	Complete steric exclusion of ions and proton transport through confined monolayer water. <i>Science</i> , 2019 , 363, 145-148	33.3	131
33	Anomalously low dielectric constant of confined water. <i>Science</i> , 2018 , 360, 1339-1342	33.3	397
32	Ballistic molecular transport through two-dimensional channels. <i>Nature</i> , 2018 , 558, 420-424	50.4	73
31	Size effect in ion transport through angstrom-scale slits. <i>Science</i> , 2017 , 358, 511-513	33.3	246
30	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
29	Sieving hydrogen isotopes through two-dimensional crystals. <i>Science</i> , 2016 , 351, 68-70	33.3	173
28	Molecular transport through capillaries made with atomic-scale precision. <i>Nature</i> , 2016 , 538, 222-225	50.4	325

27	Reconstitutable nanoparticle superlattices. <i>Nano Letters</i> , 2014 , 14, 2162-7	11.5	33
26	Langmuir analysis of nanoparticle polyvalency in DNA-mediated adsorption. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 9532-8	16.4	32
25	Metal-organic molecular device for non-volatile memory storage. <i>Applied Physics Letters</i> , 2014 , 105, 083103	10.3	5
24	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
23	Large-area molecular patterning with polymer pen lithography. <i>Nature Protocols</i> , 2013 , 8, 2548-60	18.8	69
22	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
21	Layer-by-layer assembly of a metallomesogen by dip-pen nanolithography. <i>ACS Nano</i> , 2013 , 7, 2602-9	16.7	19
20	Metal hierarchical patterning by direct nanoimprint lithography. <i>Scientific Reports</i> , 2013 , 3, 1078	4.9	70
19	Solution-processed soldering of carbon nanotubes for flexible electronics. <i>Nanotechnology</i> , 2013 , 24, 075301	3.4	4
18	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
17	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
16	Direct micromolding of Pd micro-stripes for electronic applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 152-7	1.3	3
15	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
14	Flexible and semitransparent strain sensors based on micromolded Pd nanoparticle-carbon B-stripes. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 2173-8	9.5	43
13	Metallic Conduction in NiS ₂ Nanocrystalline Structures. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 10462-10467	10.4678	18
12	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
11	Pd-Assisted Growth of InAs Nanowires. <i>Crystal Growth and Design</i> , 2010 , 10, 4197-4202	3.5	19
10	Metal nanowire grating patterns. <i>Nanoscale</i> , 2010 , 2, 2035-44	7.7	19

9	Micro- and nanostripes of self-assembled Au nanocrystal superlattices by direct micromolding. <i>Nano Research</i> , 2010 , 3, 537-544	10	12
8	Movable Au microplates as fluorescence enhancing substrates for live cells. <i>Nano Research</i> , 2010 , 3, 738-747	16	29
7	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
6	Patterned Synthesis of Pd4S: Chemically Robust Electrodes and Conducting Etch Masks. <i>Advanced Functional Materials</i> , 2010 , 20, 879-884	15.6	28
5	Intricate nature of Pd nanocrystalHydrogen interaction investigated using thermolysed Pd hexadecylthiolate films. <i>Sensors and Actuators B: Chemical</i> , 2010 , 149, 345-351	8.5	6
4	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
3	A modified micromolding method for sub-100-nm direct patterning of Pd nanowires. <i>Small</i> , 2009 , 5, 2271-5	15	29
2	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
1	Functionalized Au ₂₂ clusters: synthesis, characterization, and patterning. <i>ACS Applied Materials & Interfaces</i> , 2009 , 1, 2199-210	9.5	77