

Richard G Hobbs

List of Publications by Year in descending order

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43
papers

1,675
citations

516710

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h-index

361022

35
g-index

46
all docs

46
docs citations

46
times ranked

3129
citing authors

#	ARTICLE	IF	CITATIONS
1	Resolution Limits of Electron-Beam Lithography toward the Atomic Scale. Nano Letters, 2013, 13, 1555-1558.	9.1	350
2	Semiconductor Nanowire Fabrication by Bottom-Up and Top-Down Paradigms. Chemistry of Materials, 2012, 24, 1975-1991.	6.7	268
3	PEGylated gold nanoparticles: polymer quantification as a function of PEG lengths and nanoparticle dimensions. RSC Advances, 2013, 3, 6085-6094.	3.6	262
4	Optical-field-controlled photoemission from plasmonic nanoparticles. Nature Physics, 2017, 13, 335-339.	16.7	129
5	Designs for a quantum electron microscope. Ultramicroscopy, 2016, 164, 31-45.	1.9	122
6	High-Yield, Ultrafast, Surface Plasmon-Enhanced, Au Nanorod Optical Field Electron Emitter Arrays. ACS Nano, 2014, 8, 11474-11482.	14.6	67
7	Determining the Resolution Limits of Electron-Beam Lithography: Direct Measurement of the Point-Spread Function. Nano Letters, 2014, 14, 4406-4412.	9.1	67
8	Mapping Photoemission and Hot-Electron Emission from Plasmonic Nanoantennas. Nano Letters, 2017, 17, 6069-6076.	9.1	57
9	Seedless Growth of Sub-10 nm Germanium Nanowires. Journal of the American Chemical Society, 2010, 132, 13742-13749.	13.7	42
10	High-Energy Surface and Volume Plasmons in Nanopatterned Sub-10 nm Aluminum Nanostructures. Nano Letters, 2016, 16, 4149-4157.	9.1	38
11	Self-Seeded Growth of Germanium Nanowires: Coalescence and Ostwald Ripening. Chemistry of Materials, 2013, 25, 215-222.	6.7	34
12	Selective Sidewall Wetting of Polymer Blocks in Hydrogen Silsesquioxane Directed Self-Assembly of PS- <i>b</i> -PDMS. ACS Applied Materials & Interfaces, 2012, 4, 4637-4642.	8.0	28
13	Vanishing carrier-envelope-phase-sensitive response in optical-field photoemission from plasmonic nanoantennas. Nature Physics, 2019, 15, 1128-1133.	16.7	27
14	Single Indium Atoms and Few-Atom Indium Clusters Anchored onto Graphene via Silicon Heteroatoms. ACS Nano, 2021, 15, 14373-14383.	14.6	19
15	Resistâ€“substrate interface tailoring for generating high-density arrays of Ge and Bi ₂ Se ₃ nanowires by electron beam lithography. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2012, 30, .	1.2	17
16	Junctionless nanowire transistor fabricated with high mobility Ge channel. Physica Status Solidi - Rapid Research Letters, 2014, 8, 65-68.	2.4	16
17	Focused-helium-ion-beam blow forming of nanostructures: radiation damage and nanofabrication. Nanotechnology, 2020, 31, 045302.	2.6	16
18	High-density Au nanorod optical field-emitter arrays. Nanotechnology, 2014, 25, 465304.	2.6	15

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19	Single step synthesis of Ge/SiO _x core-shell heterostructured nanowires. Journal of Materials Chemistry, 2009, 19, 954.	6.7	13
20	Directed self-assembly of PS-b-PMMA block copolymer using HSQ lines for translational alignment. Journal of Materials Chemistry C, 2013, 1, 1192-1196.	5.5	13
21	Exploring proximity effects and large depth of field in helium ion beam lithography: large-area dense patterns and tilted surface exposure. Nanotechnology, 2018, 29, 275301.	2.6	12
22	Design and simulation of a linear electron cavity for quantum electron microscopy. Ultramicroscopy, 2019, 199, 50-61.	1.9	10
23	A nanofabricated, monolithic, path-separated electron interferometer. Scientific Reports, 2017, 7, 1677.	3.3	9
24	Efficient two-port electron beam splitter via a quantum interaction-free measurement. Physical Review A, 2018, 98, .	2.5	7
25	Effective heat dissipation in an adiabatic near-field transducer for HAMR. Optics Express, 2018, 26, 18842.	3.4	6
26	Electron energy loss of ultraviolet plasmonic modes in aluminum nanodisks. Optics Express, 2020, 28, 27405.	3.4	6
27	Variation of Self-Seeded Germanium Nanowire Electronic Device Functionality due to Synthesis Condition Determined Surface States. Advanced Materials Interfaces, 2015, 2, 1400469.	3.7	5
28	Synthesis and Magnetic Characterization of Coaxial Ge _{1-x} Mn _x /a-Si Heterostructures. Crystal Growth and Design, 2011, 11, 5253-5259.	3.0	4
29	Diameter-driven crossover in resistive behaviour of heavily doped self-seeded germanium nanowires. Beilstein Journal of Nanotechnology, 2016, 7, 1284-1288.	2.8	2
30	Nanostructured-membrane electron phase plates. Ultramicroscopy, 2020, 217, 113053.	1.9	2
31	Multiphoton Absorption and Graphitization in Poly(methyl methacrylate)-Coated Aluminum Nanoantenna Arrays. Journal of Physical Chemistry C, 2020, 124, 8930-8937.	3.1	2
32	Optical-Field-Controlled Photoemission from Plasmonic Nanoparticles with a Sub-Two-Cycle, 6 nJ, Octave-spanning Ti:sapphire Oscillator. EPJ Web of Conferences, 2019, 205, 08006.	0.3	1
33	Antiresonant-like behavior in carrier-envelope-phase-sensitive sub-optical-cycle photoemission from plasmonic nanoantennas. EPJ Web of Conferences, 2019, 205, 08011.	0.3	1
34	High-density optically actuated Au nanorod electron emitter arrays. , 2013, , .		0
35	Ultrafast, surface plasmon-enhanced, au nanorod optical field electron emitter arrays. , 2014, , .		0
36	Monolithic Multi-Grating Diffraction in a Convergent Electron Beam. Microscopy and Microanalysis, 2016, 22, 166-167.	0.4	0

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37	Single indium atoms and few-atom indium clusters anchored onto graphene via silicon heteroatoms. <i>Microscopy and Microanalysis</i> , 2021, 27, 3346-3347.	0.4	0
38	Electrostatic electron mirror in SEM for simultaneous imaging of top and bottom surfaces of a sample. <i>Ultramicroscopy</i> , 2021, 226, 113304.	1.9	0
39	Carrier-envelope phase sensitive strong-field photoemission from plasmonic nanoparticles. , 2014, , .		0
40	Numerical Simulation of Electron Energy Loss Spectroscopy of Aluminum Nanodisk Surface Plasmons. , 2017, , .		0
41	Probing the Femtosecond Response of Plasmonic Nanoparticles with Strong-field Photoemission. , 2017, , .		0
42	Sub-Cycle Effects in Carrier-Envelope-Phase-Sensitive Photoemission from Plasmonic Nanoparticles. , 2018, , .		0
43	High Coupling Efficiency Adiabatic Near-field Transducer for HAMR. , 2018, , .		0