

# N Ravishankar

## List of Publications by Citations

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143  
papers

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32  
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62  
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149  
ext. papers

4,673  
ext. citations

6.2  
avg, IF

5.58  
L-index

#	Paper	IF	Citations
143	Synthesis and structure of nanocrystalline TiO <sub>2</sub> with lower band gap showing high photocatalytic activity. <i>Langmuir</i> , <b>2004</b> , 20, 2900-7	4	473
142	Ultrafine Single-Crystalline Gold Nanowire Arrays by Oriented Attachment. <i>Advanced Materials</i> , <b>2007</b> , 19, 1854-1858	24	371
141	Ultrafast Microwave-Assisted Route to Surfactant-Free Ultrafine Pt Nanoparticles on Graphene: Synergistic Co-reduction Mechanism and High Catalytic Activity. <i>Chemistry of Materials</i> , <b>2011</b> , 23, 2772-2780	9.6	243
140	Ferrimagnetic nanogranular Co <sub>3</sub> O <sub>4</sub> through solvothermal decomposition of colloiddally dispersed monolayers of alpha-cobalt hydroxide. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 11468-72	3.4	146
139	Highly dispersed ultrafine Pt and PtRu nanoparticles on graphene: formation mechanism and electrocatalytic activity. <i>Nanoscale</i> , <b>2011</b> , 3, 569-71	7.7	141
138	Controlled synthesis of plate-shaped hydroxyapatite and implications for the morphology of the apatite phase in bone. <i>Biomaterials</i> , <b>2008</b> , 29, 4855-63	15.6	138
137	Nanoscale ZnO/CdS heterostructures with engineered interfaces for high photocatalytic activity under solar radiation. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 4209		134
136	Controlled Attachment of Ultrafine Platinum Nanoparticles on Functionalized Carbon Nanotubes with High Electrocatalytic Activity for Methanol Oxidation. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 1466-1473	3.8	132
135	Mechanistic Aspects of Shape Selection and Symmetry Breaking during Nanostructure Growth by Wet Chemical Methods. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 16866-16883	3.8	124
134	Mechanical properties and anisotropy in hydroxyapatite single crystals. <i>Scripta Materialia</i> , <b>2007</b> , 57, 361-364	3.64	122
133	Origin of enhanced photocatalytic activity and photoconduction in high aspect ratio ZnO nanorods. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 10795-802	3.6	104
132	Interfacial reactions in hydroxyapatite/alumina nanocomposites. <i>Scripta Materialia</i> , <b>2006</b> , 55, 863-866	5.6	84
131	Thermally controlled cyclic insertion/ejection of dopant ions and reversible zinc blende/wurtzite phase changes in ZnS nanostructures. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 1666-9	16.4	81
130	New insights into selective heterogeneous nucleation of metal nanoparticles on oxides by microwave-assisted reduction: rapid synthesis of high-activity supported catalysts. <i>ACS Nano</i> , <b>2011</b> , 5, 8049-61	16.7	69
129	Layered double hydroxide-CdSe quantum dot composites through colloidal processing: effect of host matrix-nanoparticle interaction on optical behavior. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 772-8	3.4	62
128	New insights into electronic and geometric effects in the enhanced photoelectrooxidation of ethanol Using ZnO nanorod/ultrathin Au nanowire hybrids. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 14445-55	16.4	60
127	Nanocomposites of hydroxides of nickel and cobalt by delamination and co-stacking: Enhanced stability of motifs in alkaline medium and electrochemical behaviour. <i>Journal of Power Sources</i> , <b>2007</b> , 172, 970-974	8.9	59

126	Influence of CeO <sub>2</sub> morphology on the catalytic activity of CeO <sub>2</sub> -Pt hybrids for CO oxidation. <i>Dalton Transactions</i> , <b>2013</b> , 42, 15343-54	4.3	57
125	Porous, catalytically active palladium nanostructures by tuning nanoparticle interactions in an organic medium. <i>Nanoscale</i> , <b>2011</b> , 3, 725-30	7.7	57
124	Nanoporous Pt with high surface area by reaction-limited aggregation of nanoparticles. <i>Langmuir</i> , <b>2009</b> , 25, 3115-21	4	57
123	High-surface step density on dendritic Pd leads to exceptional catalytic activity for formic acid oxidation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2010</b> , 2, 2965-9	9.5	53
122	Predicting the growth of two-dimensional nanostructures. <i>Nanotechnology</i> , <b>2008</b> , 19, 195603	3.4	48
121	Solution decomposition of the layered double hydroxide (LDH) of Zn with Al. <i>Solid State Sciences</i> , <b>2007</b> , 9, 279-286	3.4	44
120	Symmetry and shape issues in nanostructure growth. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 4763		41
119	Mechanical properties of tricalcium phosphate single crystals grown by molten salt synthesis. <i>Acta Biomaterialia</i> , <b>2008</b> , 4, 1448-54	10.8	41
118	Gold nanostructures from cube-shaped crystalline intermediates. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 6595-600	3.4	40
117	Delamination/Restacking behaviour of surfactant intercalated layered hydroxy double salts, M <sub>3</sub> Zn <sub>2</sub> (OH) <sub>8</sub> (surf) <sub>2</sub> ·2H <sub>2</sub> O [M = Ni, Co and surf = dodecyl sulphate (DS), dodecyl benzene sulphate (DBS)]. <i>Solid State Sciences</i> , <b>2005</b> , 7, 195-199	3.4	36
116	Microsphere Bouquets of Bismuth Telluride Nanoplates: Room-Temperature Synthesis and Thermoelectric Properties. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 1796-1799	3.8	34
115	Nanoscale heterostructures with molecular-scale single-crystal metal wires. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 20-1	16.4	33
114	Insulating state and breakdown of Fermi liquid description in molecular-scale single-crystalline wires of gold. <i>ACS Nano</i> , <b>2011</b> , 5, 8398-403	16.7	33
113	Thermal stability of spherical nanoporous aggregates and formation of hollow structures by sintering—a phase-field study. <i>ACS Nano</i> , <b>2011</b> , 5, 2700-6	16.7	32
112	Nanopatterning by solid-state dewetting on reconstructed ceramic surfaces. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 171114	3.4	32
111	Synthesis of Hollow Nanotubes of Zn <sub>2</sub> SiO <sub>4</sub> or SiO <sub>2</sub> : Mechanistic Understanding and Uranium Adsorption Behavior. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 26430-6	9.5	31
110	Wrinkling of atomic planes in ultrathin Au nanowires. <i>Nano Letters</i> , <b>2014</b> , 14, 4859-66	11.5	30
109	Nanoporous alloy aggregates: synthesis and electrocatalytic activity. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 8721		30

108	Surfactant intercalated alpha-hydroxides of cobalt and nickel and their delamination--restacking behavior in organic media. <i>Journal of Colloid and Interface Science</i> , <b>2005</b> , 288, 629-33	9.3	29
107	Tunability of electronic states in ultrathin gold nanowires. <i>Advanced Materials</i> , <b>2013</b> , 25, 2486-91	24	28
106	Sequential Organic-Inorganic Templating and Thermoelectric Properties of High-Aspect-Ratio Single-Crystal Lead Telluride Nanorods. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 4791-4793	9.6	28
105	Highly photoactive heterostructures of PbO quantum dots on TiO <sub>2</sub> . <i>RSC Advances</i> , <b>2013</b> , 3, 20970	3.7	27
104	ZnO-Au nanohybrids by rapid microwave-assisted synthesis for CO oxidation. <i>Dalton Transactions</i> , <b>2012</b> , 41, 8762-6	4.3	27
103	Insights into nucleation, growth and phase selection of WO <sub>3</sub> : morphology control and electrochromic properties. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 7307-7316	7.1	26
102	Effect of calcium deficiency on the mechanical properties of hydroxyapatite crystals. <i>Acta Materialia</i> , <b>2010</b> , 58, 4841-4848	8.4	26
101	Crumpled sheets of reduced graphene oxide as a highly sensitive, robust and versatile strain/pressure sensor. <i>Nanoscale</i> , <b>2017</b> , 9, 9581-9588	7.7	25
100	Single crystalline ultrathin gold nanowires: Promising nanoscale interconnects. <i>AIP Advances</i> , <b>2013</b> , 3, 032131	1.5	25
99	Atomic structure of quantum gold nanowires: quantification of the lattice strain. <i>ACS Nano</i> , <b>2014</b> , 8, 5994-6006	10.6	24
98	Polymer assisted hydroxyapatite microspheres suitable for biomedical application. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2008</b> , 19, 2009-13	4.5	24
97	Ultrathin Au-Alloy Nanowires at the Liquid-Liquid Interface. <i>Nano Letters</i> , <b>2018</b> , 18, 1903-1907	11.5	23
96	Insights on Defect-Mediated Heterogeneous Nucleation of Graphene on Copper. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 2513-2522	3.8	23
95	Surface diffusion driven nanoshell formation by controlled sintering of mesoporous nanoparticle aggregates. <i>Nanoscale</i> , <b>2010</b> , 2, 1423-5	7.7	23
94	Morphology controlled synthesis of low bandgap SnSe with high photodetectivity. <i>Nanoscale</i> , <b>2019</b> , 11, 870-877	7.7	22
93	Ultrathin Au nanowires supported on rGO/TiO <sub>2</sub> as an efficient photoelectrocatalyst. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 17459-17468	13	22
92	Shapes of quasicrystals. <i>Progress in Crystal Growth and Characterization of Materials</i> , <b>1997</b> , 34, 237-249	3.5	22
91	Delamination of surfactant-intercalated brucite-like hydroxy salts of cobalt and copper and solvothermal decomposition of the resultant colloidal dispersions. <i>Langmuir</i> , <b>2008</b> , 24, 11164-8	4	22

90	Ultra-high sensitivity infra-red detection and temperature effects in a graphene-tellurium nanowire binary hybrid. <i>Nanoscale</i> , <b>2017</b> , 9, 9284-9290	7.7	21
89	Hybrid Sol-Gel Combustion Synthesis of Nanoporous Anatase. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 18204-18211	3.8	21
88	An early in-situ stress signature of the AlN-Si pre-growth interface for successful integration of nitrides with (111) Si. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 211902	3.4	20
87	Directed Assembly of Ultrathin Gold Nanowires over Large Area by Dielectrophoresis. <i>Langmuir</i> , <b>2015</b> , 31, 9246-52	4	19
86	Formation of two-dimensional structures by tuning the driving force of chemical reactions: an interpretation of kinetic control. <i>Journal of Colloid and Interface Science</i> , <b>2009</b> , 330, 211-9	9.3	19
85	Semiconductor-like Sensitivity in Metallic Ultrathin Gold Nanowire-Based Sensors. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 18676-18682	3.8	17
84	Room temperature growth of ultrathin Au nanowires with high areal density over large areas by in situ functionalization of substrate. <i>Langmuir</i> , <b>2014</b> , 30, 12690-5	4	17
83	Kinetics of titania nanotube formation by anodization of titanium films. <i>Thin Solid Films</i> , <b>2011</b> , 519, 1821-1824	17	17
82	Ultra-sensitive graphene-bismuth telluride nano-wire hybrids for infrared detection. <i>Nanoscale</i> , <b>2019</b> , 11, 1579-1586	7.7	16
81	Electric Field Singularity Assisted Nanopatterning. <i>Advanced Materials</i> , <b>2004</b> , 16, 76-80	24	16
80	Graphene-oxide-supported ultrathin Au nanowires: efficient electrocatalysts for borohydride oxidation. <i>Chemical Communications</i> , <b>2015</b> , 51, 16856-9	5.8	15
79	Pristine, adherent ultrathin gold nanowires on substrates and between pre-defined contacts via a wet chemical route. <i>Nanoscale</i> , <b>2012</b> , 4, 433-7	7.7	15
78	Branched titania nanotubes through anodization voltage control. <i>Thin Solid Films</i> , <b>2011</b> , 520, 235-238	2.2	15
77	Oriented Nanocrystal Arrays of Selectable Polymorphs by Chemical Sculpture. <i>Chemistry of Materials</i> , <b>2009</b> , 21, 3197-3201	9.6	15
76	A novel solvothermal method for nanoparticle thin films and coatings. <i>Nanotechnology</i> , <b>2007</b> , 18, 025603	3.4	15
75	Application of effective potential formalism to mechanical alloying in Ag-Cu and Cu-Be systems. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2001</b> , 304-306, 413-417	5.3	15
74	Enhanced preferential CO oxidation on Zn <sub>2</sub> SnO <sub>4</sub> supported Au nanoparticles: support and H <sub>2</sub> effects. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 14430-14436	13	14
73	pH mediated delamination of anionic clay-like nickel-zinc hydroxysalt in water through intercalation of zwitterionic p-aminobenzoate ions. <i>Solid State Sciences</i> , <b>2006</b> , 8, 162-167	3.4	14

72	Existence of Ti <sup>2+</sup> States on the Surface of Heavily Reduced SrTiO <sub>3</sub> Nanocubes. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 9887-9891	9.6	13
71	Au <sub>2</sub> S(x)/CdS nanorods by cation exchange: mechanistic insights into the competition between cation-exchange and metal ion reduction. <i>Small</i> , <b>2014</b> , 10, 3895-900	11	12
70	Metal-Dielectric Interface Toughening by Catalyzed Ring Opening in a Monolayer. <i>Journal of Physical Chemistry Letters</i> , <b>2010</b> , 1, 336-340	6.4	12
69	Suppression of the reversible thermal behavior of the layered double hydroxide (LDH) of Mg with Al: stabilization of nanoparticulate oxides. <i>Langmuir</i> , <b>2007</b> , 23, 7700-6	4	12
68	Porous biphasic scaffolds and coatings for biomedical applications via morphology transition of nanorods. <i>Nanotechnology</i> , <b>2007</b> , 18, 475604	3.4	12
67	Spectroscopic and kinetic insights of Pt-dispersion over microwave-synthesized GO-supported Pt-TiO <sub>2</sub> for CO oxidation. <i>Molecular Catalysis</i> , <b>2017</b> , 432, 88-98	3.3	11
66	Directed Microwave-Assisted Self-Assembly of Au-Graphene-Au Plasmonic Dimers for SERS Applications. <i>Advanced Materials Interfaces</i> , <b>2019</b> , 6, 1900629	4.6	11
65	Formation and thermal stability of gold-silica nanohybrids: insight into the mechanism and morphology by electron tomography. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 3970-4	16.4	11
64	Seeing is Believing: Electron Microscopy for Investigating Nanostructures. <i>Journal of Physical Chemistry Letters</i> , <b>2010</b> , 1, 1212-1220	6.4	11
63	Migration of alumina grain boundaries containing a thin glass film. <i>Acta Materialia</i> , <b>2001</b> , 49, 1963-1969	8.4	11
62	Effect of processing route on the bipolar contribution to the thermoelectric properties of n-type eutectic Bi <sub>22.5</sub> Sb <sub>7.5</sub> Te <sub>70</sub> alloy. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 682, 791-798	5.7	11
61	Orientation Selection during Heterogeneous Nucleation: Implications for Heterogeneous Catalysis. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 10027-10037	3.8	10
60	Synergistic effect of reactor chemistry and compressive stress on dislocation bending during GaN growth. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 041912	3.4	10
59	Existing and emerging strategies for the synthesis of nanoscale heterostructures. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 19256-69	3.6	10
58	Directed Synthesis of Rocksalt AuCl Crystals. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 5349-5351	3.8	10
57	Ultralow non-noble metal loaded MOF derived bi-functional electrocatalysts for the oxygen evolution and reduction reactions. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 9319-9326	13	10
56	Branched Copper Nanocrystal Corals by Room-Temperature Galvanic Displacement. <i>Crystal Growth and Design</i> , <b>2010</b> , 10, 3925-3928	3.5	9
55	Ring-opening-induced toughening of a low-permittivity polymer-metal interface. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2010</b> , 2, 1275-80	9.5	9

54	Delamination and solvothermal decomposition of layered zinc hydroxysalt: Formation of bimodal zinc oxide nanostructures. <i>Solid State Sciences</i> , <b>2010</b> , 12, 1399-1403	3.4	9
53	The effects of crystallography on grain-boundary migration in alumina. <i>Journal of Materials Science</i> , <b>2006</b> , 41, 661-674	4.3	9
52	Glass and metals on crystalline oxides. <i>Journal of the European Ceramic Society</i> , <b>2003</b> , 23, 2777-2785	6	9
51	Mechanistic Insights into a Non-Classical Diffusion Pathway for the Formation of Hollow Intermetallics: A Route to Multicomponent Hollow Structures. <i>Particle and Particle Systems Characterization</i> , <b>2013</b> , 30, 590-598	3.1	8
50	Functional nanoporous structures by partial sintering of nanorod assemblies. <i>Journal Physics D: Applied Physics</i> , <b>2010</b> , 43, 455301	3	8
49	Anionic clay/Pt metal nanoparticle composite through intercalation of hexachloroplatinate in nickel zinc hydroxysalt. <i>Solid State Sciences</i> , <b>2009</b> , 11, 1270-1274	3.4	8
48	Modified electron-beam-induced deposition of metal nanostructure arrays using a parallel electron beam. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 133104	3.4	8
47	Manipulation of Optoelectronic Properties and Band Structure Engineering of Ultrathin Te Nanowires by Chemical Adsorption. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 19462-19469	9.5	7
46	Bunching of Surface Steps and Facet Formation on Analumina Surface. <i>Journal of Materials Research</i> , <b>2002</b> , 17, 98-106	2.5	7
45	Designing Diameter-Modulated Heterostructure Nanowires of PbTe/Te by Controlled Dewetting. <i>Nano Letters</i> , <b>2017</b> , 17, 7226-7233	11.5	6
44	Pristine nanomaterials: synthesis, stability and applications. <i>Nanoscale</i> , <b>2013</b> , 5, 5215-24	7.7	6
43	Atomistic fracture energy partitioning at a metal-ceramic interface using a nanomolecular monolayer. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	6
42	Interstratification of trioctahedral and dioctahedral smectites through delamination and costacking. <i>Journal of Colloid and Interface Science</i> , <b>2008</b> , 324, 80-4	9.3	6
41	Centrosymmetric tetragonal tellurium doped calcium copper titanate and its dielectric tunability. <i>Solid State Communications</i> , <b>2016</b> , 241, 7-13	1.6	5
40	Solution decomposition of the layered double hydroxide of Co with Fe: phase segregation of normal and inverse spinels. <i>Journal of Colloid and Interface Science</i> , <b>2008</b> , 325, 419-24	9.3	5
39	Thermal History-Dependent Current Relaxation in hBN/MoS van der Waals Dimers. <i>ACS Nano</i> , <b>2020</b> , 14, 5909-5916	16.7	5
38	Enhancement of Raman signal from analytes on ultrathin Au and AuCu alloy nanowire network substrates. <i>Materials Research Express</i> , <b>2019</b> , 6, 085068	1.7	4
37	Ordered nanostructures by site-specific heterogeneous nucleation. <i>Philosophical Magazine Letters</i> , <b>2005</b> , 85, 523-531	1	4



36	Contact-Barrier Free, High Mobility, Dual-Gated Junctionless Transistor Using Tellurium Nanowire. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2006278	15.6	4
35	Rapid synthesis of hybrids and hollow PdO nanostructures by controlled in situ dissolution of a ZnO nanorod template: insights into the formation mechanism and thermal stability. <i>Nanoscale</i> , <b>2016</b> , 8, 1462-9	7.7	3
34	Application of FIB and TEM for the Characterization of Dewetting Behavior on Ceramics. <i>Microscopy and Microanalysis</i> , <b>2002</b> , 8, 562-563	0.5	3
33	Exuding Liquid from Grain Boundaries in Alumina. <i>Journal of the American Ceramic Society</i> , <b>2001</b> , 84, 859-862	3.8	3
32	Dewetting of liquids on ceramic surfaces at high temperatures. <i>Microscopy and Microanalysis</i> , <b>2002</b> , 8, 257-67	0.5	3
31	Glass/Crystal Interfaces in Liquid-Phase Sintered Materials. <i>Journal of Materials Science</i> , <b>2000</b> , 8, 295-304		3
30	On the Influence of Applied Fields on Spinel Formation. <i>Materials Research Society Symposia Proceedings</i> , <b>1999</b> , 586, 151		3
29	Self-Assembled Nanostructured Tin Oxide Thin Films at the Air/Water Interface for Selective H <sub>2</sub> S Detection. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 3730-3740	5.6	2
28	Carrier Dynamics in Ultrathin Gold Nanowires: Role of Auger Processes. <i>Plasmonics</i> , <b>2020</b> , 15, 1151-1158	2.4	2
27	In situ Microscopy: A Tool to Understand Mechanisms. <i>Microscopy and Microanalysis</i> , <b>2008</b> , 14, 246-247	0.5	2
26	Structural and Dielectric Properties of SrBi <sub>2-x</sub> Pb <sub>x</sub> Nb <sub>2</sub> O <sub>9</sub> /2 (0 ≤ x ≤ 1). <i>Ferroelectrics</i> , <b>2005</b> , 324, 113-119	0.6	2
25	Monitoring Faceting on Ceramic Surfaces. <i>Materials Research Society Symposia Proceedings</i> , <b>2002</b> , 750, 1		2
24	Control of Grain Boundary Microstructures in Liquid-Phase Sintered Alumina. <i>Materials Research Society Symposia Proceedings</i> , <b>1999</b> , 586, 59		2
23	Dirac surface plasmons in photoexcited bismuth telluride nanowires: optical pump-terahertz probe spectroscopy. <i>Nanoscale</i> , <b>2021</b> , 13, 8283-8292	7.7	2
22	Solution Phase Synthesis of Radial-Axial Heterostructured Nanowires with Coherent Interfaces. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 3102-3109	3.8	2
21	Complementary Microscopy Techniques for Characterizing Nanostructures. <i>Microscopy and Microanalysis</i> , <b>2008</b> , 14, 374-375	0.5	1
20	Investigation of Surface Grooves from Migrating Grain Boundaries. <i>Materials Research Society Symposia Proceedings</i> , <b>2002</b> , 750, 1		1
19	Designed synthesis of a hierarchical MoSe <sub>2</sub> @WSe <sub>2</sub> hybrid nanostructure as a bifunctional electrocatalyst for total water-splitting. <i>Sustainable Energy and Fuels</i> , <b>2022</b> , 6, 1708-1718	5.8	0



18	Morphology Controlled Low-dimensional Single-crystalline SnSe <sub>2</sub> -graphene Hybrid for near IR Photodetection. <i>Microscopy and Microanalysis</i> , <b>2020</b> , 26, 2338-2340	0.5
17	Mechanistic Studies of Growth of Ultrathin Pt and Alloy Nanowires. <i>Microscopy and Microanalysis</i> , <b>2020</b> , 26, 2400-2401	0.5
16	Axial-Radial Heterostructures of Telluride Nanowire. <i>Microscopy and Microanalysis</i> , <b>2020</b> , 26, 2834-2836	0.5
15	Ultrathin Au-alloy nanowires: Synthesis and Stability. <i>Microscopy and Microanalysis</i> , <b>2017</b> , 23, 1918-1919	0.5
14	Metal Nanostructures on Ceramic Surfaces for Energy Applications. <i>Microscopy and Microanalysis</i> , <b>2009</b> , 15, 1442-1443	0.5
13	Studying Trapped Grains in Alumina using SEM and EBSD. <i>Microscopy and Microanalysis</i> , <b>2006</b> , 12, 1020-1021	0.5
12	Studying alumina boundary migration using combined microscopy techniques. <i>Journal of Physics: Conference Series</i> , <b>2006</b> , 26, 123-126	0.3
11	A Study of Dewetting on (001) Rutile using AFM. <i>Microscopy and Microanalysis</i> , <b>2006</b> , 12, 1028-1029	0.5
10	Analysis of Grain Boundary Migration in Alumina. <i>Microscopy and Microanalysis</i> , <b>2003</b> , 9, 64-65	0.5
9	Nanopatterning on Reconstructed Ceramic Surfaces. <i>Materials Research Society Symposia Proceedings</i> , <b>2004</b> , 819, N5.8.1	
8	Dewetting on the Surface of Rutile. <i>Materials Research Society Symposia Proceedings</i> , <b>2004</b> , 819, N5.9.1	
7	Understanding milling induced changes: Some results. <i>Journal of Chemical Sciences</i> , <b>2003</b> , 115, 727-740	1.8
6	Glass-Crystal Boundaries in Liquid-Phase Sintered Ceramics. <i>Materials Research Society Symposia Proceedings</i> , <b>2000</b> , 620, 1	
5	Grain Boundary Migration in Alumina. <i>Materials Research Society Symposia Proceedings</i> , <b>2000</b> , 652, 1	
4	Exudation of Silicate Liquid from Polycrystalline Alumina. <i>Materials Research Society Symposia Proceedings</i> , <b>2000</b> , 654, 581	
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