

# Dong Wang

## List of Publications by Citations

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89  
papers

1,874  
citations

24  
h-index

40  
g-index

100  
ext. papers

2,314  
ext. citations

6.4  
avg, IF

5.1  
L-index

#	Paper	IF	Citations
89	A Near Infrared Light Triggered Hydrogenated Black TiO <sub>2</sub> for Cancer Photothermal Therapy. <i>Advanced Healthcare Materials</i> , <b>2015</b> , 4, 1526-36	10.1	213
88	Slightly hydrogenated TiO <sub>2</sub> with enhanced photocatalytic performance. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 12708-12716	13	164
87	Understanding the fast lithium storage performance of hydrogenated TiO <sub>2</sub> nanoparticles. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 14507	13	116
86	Nanoporous gold nanoparticles. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 5344		98
85	Formation of precise 2D Au particle arrays via thermally induced dewetting on pre-patterned substrates. <i>Beilstein Journal of Nanotechnology</i> , <b>2011</b> , 2, 318-26	3	89
84	Effect of length scale on fatigue life and damage formation in thin Cu films. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2008</b> , 493, 267-273	5.3	67
83	Layer-Dependent Chemically Induced Phase Transition of Two-Dimensional MoS <sub>2</sub> . <i>Nano Letters</i> , <b>2018</b> , 18, 3435-3440	11.5	50
82	Ordered arrays of nanoporous gold nanoparticles. <i>Beilstein Journal of Nanotechnology</i> , <b>2012</b> , 3, 651-7	3	48
81	Solid-state dewetting for fabrication of metallic nanoparticles and influences of nanostructured substrates and dealloying. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2013</b> , 210, 1544-1551	1.6	48
80	Ni/Au bi-metallic nanoparticles formed via dewetting. <i>Materials Letters</i> , <b>2012</b> , 70, 30-33	3.3	44
79	Nanoporous Gold Nanoparticles and Au/AlO Hybrid Nanoparticles with Large Tunability of Plasmonic Properties. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 6273-6281	9.5	43
78	Optical Plasmons of Individual Gold Nanosponges. <i>ACS Photonics</i> , <b>2015</b> , 2, 1436-1442	6.3	39
77	Substitutionally Dispersed High-Oxidation CoO <sub>x</sub> Clusters in the Lattice of Rutile TiO <sub>2</sub> Triggering Efficient Co/Ti Cooperative Catalytic Centers for Oxygen Evolution Reactions. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2009610	15.6	38
76	Solid-state dewetting of Au/Ni bilayers: The effect of alloying on morphology evolution. <i>Journal of Applied Physics</i> , <b>2014</b> , 116, 044307	2.5	37
75	Zwitterionic AIEgens: Rational Molecular Design for NIR-II Fluorescence Imaging-Guided Synergistic Phototherapy. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2007026	15.6	36
74	Thermal dewetting of thin Au films deposited onto line-patterned substrates. <i>Journal of Materials Science</i> , <b>2012</b> , 47, 1605-1608	4.3	34
73	Mesoscopically Bi-continuous Ag/Au Hybrid Nanosponges with Tunable Plasmon Resonances as Bottom-Up Substrates for Surface-Enhanced Raman Spectroscopy. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 7673-7682	9.6	34

72	Two-dimensional nanoparticle arrays formed by dewetting of thin gold films deposited on pre-patterned substrates. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2011</b> , 22, 1067-1070	2.1	31
71	Ordered arrays of nanoporous silicon nanopillars and silicon nanopillars with nanoporous shells. <i>Nanoscale Research Letters</i> , <b>2013</b> , 8, 42	5	28
70	Long-lived electron emission reveals localized plasmon modes in disordered nanosponge antennas. <i>Light: Science and Applications</i> , <b>2017</b> , 6, e17075	16.7	27
69	Plasma Hydrogenated TiO <sub>2</sub> /Nickel Foam as an Efficient Bifunctional Electrocatalyst for Overall Water Splitting. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 885-894	8.3	27
68	Whiskers growth in thin passivated Au films. <i>Acta Materialia</i> , <b>2018</b> , 149, 154-163	8.4	25
67	Fabrication of hollow gold nanoparticles by dewetting, dealloying and coarsening. <i>Acta Materialia</i> , <b>2016</b> , 102, 108-115	8.4	25
66	Solid-state dewetting of single- and bilayer Au-W thin films: Unraveling the role of individual layer thickness, stacking sequence and oxidation on morphology evolution. <i>AIP Advances</i> , <b>2016</b> , 6, 035109	1.5	24
65	Observing charge separation in nanoantennas via ultrafast point-projection electron microscopy. <i>Light: Science and Applications</i> , <b>2018</b> , 7, 55	16.7	21
64	Plasmonic Horizon in Gold Nanosponges. <i>Nano Letters</i> , <b>2018</b> , 18, 1269-1273	11.5	20
63	Formation of supersaturated Au <sub>3</sub> Ni nanoparticles via dewetting of an Au/Ni bilayer. <i>Materials Letters</i> , <b>2013</b> , 102-103, 22-25	3.3	20
62	Tuning the nanoscale morphology and optical properties of porous gold nanoparticles by surface passivation and annealing. <i>Acta Materialia</i> , <b>2017</b> , 127, 108-116	8.4	19
61	Influence of the substrate on the morphological evolution of gold thin films during solid-state dewetting. <i>Applied Surface Science</i> , <b>2016</b> , 388, 475-482	6.7	19
60	Facet-controlled phase separation in supersaturated Au-Ni nanoparticles upon shape equilibration. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 073109	3.4	18
59	Nonlinear plasmon-exciton coupling enhances sum-frequency generation from a hybrid metal/semiconductor nanostructure. <i>Nature Communications</i> , <b>2020</b> , 11, 1464	17.4	17
58	Electrochemical performance of nanoporous Si as anode for lithium ion batteries in alkyl carbonate and ionic liquid-based electrolytes. <i>Journal of Applied Electrochemistry</i> , <b>2014</b> , 44, 159-168	2.6	17
57	Deformation behavior of Au/Ti multilayers under indentation. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2012</b> , 23, 1077-1082	2.1	17
56	Size effect on mechanical behavior of Al/Si <sub>3</sub> N <sub>4</sub> multilayers by nanoindentation. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 644, 275-283	5.3	16
55	Plasmonic nanosponges. <i>Advances in Physics: X</i> , <b>2018</b> , 3, 1456361	5.1	15

54	NiCo <sub>2</sub> O <sub>4</sub> @Ni <sub>2</sub> P nanorods grown on nickel nanorod arrays as a bifunctional catalyst for efficient overall water splitting. <i>Materials Today Energy</i> , <b>2020</b> , 17, 100490	7	14
53	Disordered surface formation of WS <sub>2</sub> via hydrogen plasma with enhanced anode performances for lithium and sodium ion batteries. <i>Sustainable Energy and Fuels</i> , <b>2019</b> , 3, 865-874	5.8	13
52	Aluminum-doped ZnO thin films deposited on flat and nanostructured glass substrates: Quality and performance for applications in organic solar cells. <i>Solar Energy</i> , <b>2018</b> , 172, 219-224	6.8	13
51	Fabrication of N-doped TiO <sub>2</sub> coatings on nanoporous Si nanopillar arrays through biomimetic layer by layer mineralization. <i>Dalton Transactions</i> , <b>2014</b> , 43, 8480-5	4.3	13
50	Solid-state dewetting of Au/Ni bi-layer films mediated through individual layer thickness and stacking sequence. <i>Applied Surface Science</i> , <b>2018</b> , 444, 505-510	6.7	12
49	Influences of Ta passivation layers on the fatigue behavior of thin Cu films. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 610, 33-38	5.3	12
48	Dewetting of Au/Ni bilayer films on prepatterned substrates and the formation of arrays of supersaturated Au-Ni nanoparticles. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , <b>2014</b> , 32, 021802	1.3	12
47	A novel evaluation strategy for fatigue reliability of flexible nanoscale films. <i>Materials Research Express</i> , <b>2018</b> , 5, 035012	1.7	11
46	Strong Spatial and Spectral Localization of Surface Plasmons in Individual Randomly Disordered Gold Nanosponges. <i>Nano Letters</i> , <b>2018</b> , 18, 4957-4964	11.5	11
45	Growth of Hierarchically 3D Silver/Silica Hybrid Nanostructures by Metastable State Assisted Atomic Layer Deposition (MS-ALD). <i>Advanced Materials Technologies</i> , <b>2017</b> , 2, 1700015	6.8	10
44	Doubly Resonant Plasmonic Hot Spot Exciton Coupling Enhances Second Harmonic Generation from Au/ZnO Hybrid Porous Nanosponges. <i>ACS Photonics</i> , <b>2019</b> , 6, 2779-2787	6.3	10
43	Nanoindentation of nano-Al/Si <sub>3</sub> N <sub>4</sub> multilayers with Vickers and Brinell indenters. <i>Journal of the European Ceramic Society</i> , <b>2013</b> , 33, 2355-2358	6	10
42	Ni <sub>3</sub> N-Coated Ni Nanorod Arrays for Hydrogen and Oxygen Evolution in Electrochemical Water Splitting. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 10986-10995	5.6	10
41	One-for-all phototheranostics: Single component AIE dots as multi-modality theranostic agent for fluorescence-photoacoustic imaging-guided synergistic cancer therapy. <i>Biomaterials</i> , <b>2021</b> , 274, 120892	15.6	9
40	Photo-Thermoelectric Conversion Using Black Silicon with Enhanced Light Trapping Performance far beyond the Band Edge Absorption. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 1818-1826	9.5	9
39	Efficient fabrication of MoS <sub>2</sub> nanocomposites by water-assisted exfoliation for nonvolatile memories. <i>Green Chemistry</i> , <b>2021</b> , 23, 3642-3648	10	8
38	Complex patterned gold structures fabricated via laser annealing and dealloying. <i>Applied Surface Science</i> , <b>2014</b> , 302, 74-78	6.7	7
37	Luminescent ordered arrays of nanoporous silicon nanopillars and silicon nanopillars with nanoporous shells. <i>Materials Letters</i> , <b>2013</b> , 98, 186-189	3.3	7

36	High-Efficiency Photothermal Water Evaporation using Broadband Solar Energy Harvesting by Ultrablack Silicon Structures. <i>Advanced Energy and Sustainability Research</i> , <b>2021</b> , 2, 2000083	1.6	7
35	Layer thickness effect on fracture behavior of Al/Si <sub>3</sub> N <sub>4</sub> multilayer on Si substrate under three-point bending. <i>Applied Surface Science</i> , <b>2018</b> , 445, 563-567	6.7	6
34	Ordered arrays of patterned nanoporous silicon. <i>Journal of Micromechanics and Microengineering</i> , <b>2013</b> , 23, 074004	2	6
33	N-doped TiO <sub>2</sub> with a disordered surface layer fabricated via plasma treatment as an anode with clearly enhanced performance for rechargeable sodium ion batteries. <i>Sustainable Energy and Fuels</i> , <b>2019</b> , 3, 2688-2696	5.8	5
32	Silicon/silicide grown out of nanoporous gold nanoparticles. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2013</b> , 210, 1512-1515	1.6	5
31	Metastable Atomic Layer Deposition: 3D Self-Assembly toward Ultradark Materials. <i>ACS Nano</i> , <b>2020</b> , 14, 15023-15031	16.7	5
30	A synergetic effect between photogenerated carriers and photothermally enhanced electrochemical urea-assisted hydrogen generation on the Ni-NiO/Nickel Foam catalyst. <i>Materials Advances</i> , <b>2021</b> , 2, 2104-2111	3.3	5
29	Solid-State Dewetting of Gold on Stochastically Periodic SiO Nanocolumns Prepared by Oblique Angle Deposition. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 11385-11395	9.5	5
28	Size effect on the mechanical behavior of Al/Si multilayers deposited on Kapton substrate. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2015</b> , 26, 8224-8228	2.1	4
27	ZnO/porous-Si and TiO <sub>2</sub> /porous-Si nanocomposite nanopillars. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2015</b> , 33, 01A102	2.9	4
26	Tunable plasmon resonance of semi-spherical nanoporous gold nanoparticles. <i>Materials Research Express</i> , <b>2014</b> , 1, 035018	1.7	4
25	Controlled synthesis of self-assembled 3D nanostructures using metastable atomic layer deposition. <i>Materials Today Chemistry</i> , <b>2018</b> , 10, 112-119	6.2	4
24	Surface-Nanostructured Al <sub>2</sub> O <sub>3</sub> /AlN Composite Thin Films with Excellent Broad-Band Antireflection Properties Fabricated by Limited Reactive Sputtering. <i>ACS Applied Nano Materials</i> , <b>2018</b> , 1, 1124-1130	5.6	3
23	Probing Transient Localized Electromagnetic Fields Using Low-Energy Point-Projection Electron Microscopy. <i>ACS Photonics</i> , <b>2021</b> , 8, 2573-2580	6.3	3
22	Efficient preparation of Ni-M (M=Fe, Co, Mo) bimetallic oxides layer on Ni nanorod arrays for electrocatalytic oxygen evolution. <i>Applied Materials Today</i> , <b>2021</b> , 25, 101185	6.6	3
21	Synthesis and characterization of size controlled bimetallic nanosponges. <i>Physical Sciences Reviews</i> , <b>2019</b> , 4,	1.4	2
20	3D structure evolution using metastable atomic layer deposition based on planar silver templates. <i>Applied Surface Science</i> , <b>2020</b> , 514, 145770	6.7	2
19	Cancer Treatment: A Near Infrared Light Triggered Hydrogenated Black TiO <sub>2</sub> for Cancer Photothermal Therapy (Adv. Healthcare Mater. 10/2015). <i>Advanced Healthcare Materials</i> , <b>2015</b> , 4, 1576-1576	10.1	2

18	Investigation of NiAlN as gate-material for submicron CMOS technology. <i>Microelectronic Engineering</i> , <b>2004</b> , 76, 354-359	2.5	2
17	Bio-inspired self-assembly of large area 3D Ag@SiO <sub>2</sub> plasmonic nanostructures with tunable broadband light harvesting. <i>Applied Materials Today</i> , <b>2021</b> , 25, 101238	6.6	2
16	Hydrogen-nitrogen plasma assisted synthesis of titanium dioxide with enhanced performance as anode for sodium ion batteries. <i>Scientific Reports</i> , <b>2020</b> , 10, 11817	4.9	2
15	Rapid fabrication and interface structure of highly faceted epitaxial Ni-Au solid solution nanoparticles on sapphire. <i>Acta Materialia</i> , <b>2021</b> , 220, 117318	8.4	2
14	Achieving very high cycle fatigue performance of Au thin films for flexible electronic applications. <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 89, 107-113	9.1	2
13	Formation and evolution of Au-SiO <sub>x</sub> Heterostructures: From nanoflowers to nanosprouts. <i>Materials and Design</i> , <b>2021</b> , 209, 109956	8.1	2
12	Photo-thermoelectric conversion and photo-induced thermal imaging using 2D/3D ReS <sub>2</sub> @carbon framework with enhanced photon harvesting. <i>Chemical Engineering Journal</i> , <b>2022</b> , 446, 137084	14.7	2
11	Fatigue behavior of nanoscale Mo/W multilayers on flexible substrates. <i>MRS Advances</i> , <b>2019</b> , 4, 2309-2317	17	1
10	Effect of a thin Au and ZnO layer on optical properties of 1D PhC structures patterned in LED surface. <i>Optik</i> , <b>2019</b> , 199, 163333	2.5	1
9	Morphological and compositional mapping of supersaturated AuNi alloy nanoparticles fabricated by solid state dewetting. <i>Applied Surface Science Advances</i> , <b>2021</b> , 4, 100082	2.6	1
8	Tailoring Patterned Visible-Light Scattering by Silicon Photonic Crystals. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> ,	9.5	1
7	Effect of SiO <sub>2</sub> Interlayer Thickness in Au/SiO <sub>2</sub> /Si Multilayer Systems on Si Sources and the Formation of Au-Based Nanostructures. <i>Advanced Materials Interfaces</i> , <b>2022</b> , 9, 2101493	4.6	0
6	Ultrasensitive Strain Sensors Based on Cu-Al Alloy Films with Voided Cluster Boundaries. <i>Advanced Materials Technologies</i> , 2100524	6.8	0
5	Thin film nanostructuring at oblique angles by substrate patterning. <i>Surface and Coatings Technology</i> , <b>2022</b> , 436, 128293	4.4	0
4	Hydrogenated TiO <sub>2</sub> Nanoparticles Loaded with Au Nanoclusters Demonstrating Largely Enhanced Performance for Electrochemical Reduction of Nitrogen to Ammonia. <i>Energy Technology</i> , 2200085	3.5	0
3	A model revealing grain boundary arrangement-dominated fatigue cracking behavior in nanoscale metallic multilayers. <i>MRS Communications</i> , <b>2019</b> , 9, 936-940	2.7	
2	Length-scale dominated thermal fatigue behavior in nanocrystalline Au interconnect lines. <i>Materialia</i> , <b>2019</b> , 7, 100337	3.2	
1	Plasmon-driven ultrafast point-projection electron microscopy. <i>EPJ Web of Conferences</i> , <b>2019</b> , 205, 08010.3		

