

Dong Wang

List of Publications by Year in Descending Order

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

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	Effect of SiO ₂ Interlayer Thickness in Au/SiO ₂ /Si Multilayer Systems on Si Sources and the Formation of Au-Based Nanostructures. <i>Advanced Materials Interfaces</i> , 2022 , 9, 2101493	4.6	0
88	Thin film nanostructuring at oblique angles by substrate patterning. <i>Surface and Coatings Technology</i> , 2022 , 436, 128293	4.4	0
87	Photo-thermoelectric conversion and photo-induced thermal imaging using 2D/3D ReS ₂ @carbon framework with enhanced photon harvesting. <i>Chemical Engineering Journal</i> , 2022 , 446, 137084	14.7	2
86	Bio-inspired self-assembly of large area 3D Ag@SiO ₂ plasmonic nanostructures with tunable broadband light harvesting. <i>Applied Materials Today</i> , 2021 , 25, 101238	6.6	2
85	High-Efficiency Photothermal Water Evaporation using Broadband Solar Energy Harvesting by Ultrablack Silicon Structures. <i>Advanced Energy and Sustainability Research</i> , 2021 , 2, 2000083	1.6	7
84	Morphological and compositional mapping of supersaturated AuNi alloy nanoparticles fabricated by solid state dewetting. <i>Applied Surface Science Advances</i> , 2021 , 4, 100082	2.6	1
83	One-for-all phototheranostics: Single component AIE dots as multi-modality theranostic agent for fluorescence-photoacoustic imaging-guided synergistic cancer therapy. <i>Biomaterials</i> , 2021 , 274, 120892	15.6	9
82	Zwitterionic AIEgens: Rational Molecular Design for NIR-II Fluorescence Imaging-Guided Synergistic Phototherapy. <i>Advanced Functional Materials</i> , 2021 , 31, 2007026	15.6	36
81	Substitutionally Dispersed High-Oxidation CoO _x Clusters in the Lattice of Rutile TiO ₂ Triggering Efficient Co/Ti Cooperative Catalytic Centers for Oxygen Evolution Reactions. <i>Advanced Functional Materials</i> , 2021 , 31, 2009610	15.6	38
80	Efficient fabrication of MoS ₂ nanocomposites by water-assisted exfoliation for nonvolatile memories. <i>Green Chemistry</i> , 2021 , 23, 3642-3648	10	8
79	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> , 2021 , 2, 2104-2111	3.3	5
78	Photo-Thermoelectric Conversion Using Black Silicon with Enhanced Light Trapping Performance far beyond the Band Edge Absorption. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 1818-1826	9.5	9
77	Solid-State Dewetting of Gold on Stochastically Periodic SiO Nanocolumns Prepared by Oblique Angle Deposition. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 11385-11395	9.5	5
76	Probing Transient Localized Electromagnetic Fields Using Low-Energy Point-Projection Electron Microscopy. <i>ACS Photonics</i> , 2021 , 8, 2573-2580	6.3	3
75	Rapid fabrication and interface structure of highly faceted epitaxial Ni-Au solid solution nanoparticles on sapphire. <i>Acta Materialia</i> , 2021 , 220, 117318	8.4	2
74	Achieving very high cycle fatigue performance of Au thin films for flexible electronic applications. <i>Journal of Materials Science and Technology</i> , 2021 , 89, 107-113	9.1	2
73	Formation and evolution of Au-SiO _x Heterostructures: From nanoflowers to nanosprouts. <i>Materials and Design</i> , 2021 , 209, 109956	8.1	2

72	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> , 2021 , 25, 101185	6.6	3
71	Tailoring Patterned Visible-Light Scattering by Silicon Photonic Crystals. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	1
70	Nonlinear plasmon-exciton coupling enhances sum-frequency generation from a hybrid metal/semiconductor nanostructure. <i>Nature Communications</i> , 2020 , 11, 1464	17.4	17
69	3D structure evolution using metastable atomic layer deposition based on planar silver templates. <i>Applied Surface Science</i> , 2020 , 514, 145770	6.7	2
68	Metastable Atomic Layer Deposition: 3D Self-Assembly toward Ultradark Materials. <i>ACS Nano</i> , 2020 , 14, 15023-15031	16.7	5
67	Hydrogen-nitrogen plasma assisted synthesis of titanium dioxide with enhanced performance as anode for sodium ion batteries. <i>Scientific Reports</i> , 2020 , 10, 11817	4.9	2
66	NiCo ₂ O ₄ @Ni ₂ P nanorods grown on nickel nanorod arrays as a bifunctional catalyst for efficient overall water splitting. <i>Materials Today Energy</i> , 2020 , 17, 100490	7	14
65	Ni ₃ N-Coated Ni Nanorod Arrays for Hydrogen and Oxygen Evolution in Electrochemical Water Splitting. <i>ACS Applied Nano Materials</i> , 2020 , 3, 10986-10995	5.6	10
64	Fatigue behavior of nanoscale Mo/W multilayers on flexible substrates. <i>MRS Advances</i> , 2019 , 4, 2309-2317	17.7	1
63	Doubly Resonant Plasmonic Hot Spot Exciton Coupling Enhances Second Harmonic Generation from Au/ZnO Hybrid Porous Nanosponges. <i>ACS Photonics</i> , 2019 , 6, 2779-2787	6.3	10
62	Effect of a thin Au and ZnO layer on optical properties of 1D PhC structures patterned in LED surface. <i>Optik</i> , 2019 , 199, 163333	2.5	1
61	A model revealing grain boundary arrangement-dominated fatigue cracking behavior in nanoscale metallic multilayers. <i>MRS Communications</i> , 2019 , 9, 936-940	2.7	
60	Length-scale dominated thermal fatigue behavior in nanocrystalline Au interconnect lines. <i>Materialia</i> , 2019 , 7, 100337	3.2	
59	Plasmon-driven ultrafast point-projection electron microscopy. <i>EPJ Web of Conferences</i> , 2019 , 205, 08010.3	10.3	
58	Synthesis and characterization of size controlled bimetallic nanosponges. <i>Physical Sciences Reviews</i> , 2019 , 4,	1.4	2
57	Disordered surface formation of WS ₂ via hydrogen plasma with enhanced anode performances for lithium and sodium ion batteries. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 865-874	5.8	13
56	N-doped TiO ₂ 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> , 2019 , 3, 2688-2696	5.8	5
55	Plasma Hydrogenated TiO ₂ /Nickel Foam as an Efficient Bifunctional Electrocatalyst for Overall Water Splitting. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 885-894	8.3	27

54	Whiskers growth in thin passivated Au films. <i>Acta Materialia</i> , 2018 , 149, 154-163	8.4	25
53	A novel evaluation strategy for fatigue reliability of flexible nanoscale films. <i>Materials Research Express</i> , 2018 , 5, 035012	1.7	11
52	Plasmonic Horizon in Gold Nanosponges. <i>Nano Letters</i> , 2018 , 18, 1269-1273	11.5	20
51	Surface-Nanostructured Al ₂ O ₃ /AlN Composite Thin Films with Excellent Broad-Band Antireflection Properties Fabricated by Limited Reactive Sputtering. <i>ACS Applied Nano Materials</i> , 2018 , 1, 1124-1130	5.6	3
50	Plasmonic nanosponges. <i>Advances in Physics: X</i> , 2018 , 3, 1456361	5.1	15
49	Solid-state dewetting of Au/Ni bi-layer films mediated through individual layer thickness and stacking sequence. <i>Applied Surface Science</i> , 2018 , 444, 505-510	6.7	12
48	Layer thickness effect on fracture behavior of Al/Si ₃ N ₄ multilayer on Si substrate under three-point bending. <i>Applied Surface Science</i> , 2018 , 445, 563-567	6.7	6
47	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> , 2018 , 172, 219-224	6.8	13
46	Strong Spatial and Spectral Localization of Surface Plasmons in Individual Randomly Disordered Gold Nanosponges. <i>Nano Letters</i> , 2018 , 18, 4957-4964	11.5	11
45	Controlled synthesis of self-assembled 3D nanostructures using metastable atomic layer deposition. <i>Materials Today Chemistry</i> , 2018 , 10, 112-119	6.2	4
44	Observing charge separation in nanoantennas via ultrafast point-projection electron microscopy. <i>Light: Science and Applications</i> , 2018 , 7, 55	16.7	21
43	Layer-Dependent Chemically Induced Phase Transition of Two-Dimensional MoS ₂ . <i>Nano Letters</i> , 2018 , 18, 3435-3440	11.5	50
42	Tuning the nanoscale morphology and optical properties of porous gold nanoparticles by surface passivation and annealing. <i>Acta Materialia</i> , 2017 , 127, 108-116	8.4	19
41	Nanoporous Gold Nanoparticles and Au/AlO ₃ Hybrid Nanoparticles with Large Tunability of Plasmonic Properties. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 6273-6281	9.5	43
40	Growth of Hierarchically 3D Silver/Silica Hybrid Nanostructures by Metastable State Assisted Atomic Layer Deposition (MS-ALD). <i>Advanced Materials Technologies</i> , 2017 , 2, 1700015	6.8	10
39	Long-lived electron emission reveals localized plasmon modes in disordered nanosponge antennas. <i>Light: Science and Applications</i> , 2017 , 6, e17075	16.7	27
38	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> , 2016 , 6, 035109	1.5	24
37	Influence of the substrate on the morphological evolution of gold thin films during solid-state dewetting. <i>Applied Surface Science</i> , 2016 , 388, 475-482	6.7	19

36	Fabrication of hollow gold nanoparticles by dewetting, dealloying and coarsening. <i>Acta Materialia</i> , 2016 , 102, 108-115	8.4	25
35	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> , 2016 , 28, 7673-7682 ³⁴	9.6	34
34	Size effect on mechanical behavior of Al/Si ₃ N ₄ multilayers by nanoindentation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 644, 275-283	5.3	16
33	Size effect on the mechanical behavior of Al/Si multilayers deposited on Kapton substrate. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 8224-8228	2.1	4
32	Optical Plasmons of Individual Gold Nanosponges. <i>ACS Photonics</i> , 2015 , 2, 1436-1442	6.3	39
31	ZnO/porous-Si and TiO ₂ /porous-Si nanocomposite nanopillars. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2015 , 33, 01A102	2.9	4
30	Cancer Treatment: A Near Infrared Light Triggered Hydrogenated Black TiO ₂ for Cancer Photothermal Therapy (Adv. Healthcare Mater. 10/2015). <i>Advanced Healthcare Materials</i> , 2015 , 4, 1576-1576	10.1	2
29	A Near Infrared Light Triggered Hydrogenated Black TiO ₂ for Cancer Photothermal Therapy. <i>Advanced Healthcare Materials</i> , 2015 , 4, 1526-36	10.1	213
28	Facet-controlled phase separation in supersaturated Au-Ni nanoparticles upon shape equilibration. <i>Applied Physics Letters</i> , 2015 , 107, 073109	3.4	18
27	Fabrication of N-doped TiO ₂ coatings on nanoporous Si nanopillar arrays through biomimetic layer by layer mineralization. <i>Dalton Transactions</i> , 2014 , 43, 8480-5	4.3	13
26	Slightly hydrogenated TiO ₂ with enhanced photocatalytic performance. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 12708-12716	13	164
25	Complex patterned gold structures fabricated via laser annealing and dealloying. <i>Applied Surface Science</i> , 2014 , 302, 74-78	6.7	7
24	Influences of Ta passivation layers on the fatigue behavior of thin Cu films. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 610, 33-38	5.3	12
23	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> , 2014 , 32, 021802	1.3	12
22	Tunable plasmon resonance of semi-spherical nanoporous gold nanoparticles. <i>Materials Research Express</i> , 2014 , 1, 035018	1.7	4
21	Solid-state dewetting of Au/Ni bilayers: The effect of alloying on morphology evolution. <i>Journal of Applied Physics</i> , 2014 , 116, 044307	2.5	37
20	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> , 2014 , 44, 159-168	2.6	17
19	Ordered arrays of nanoporous silicon nanopillars and silicon nanopillars with nanoporous shells. <i>Nanoscale Research Letters</i> , 2013 , 8, 42	5	28

18	Formation of supersaturated AuNi nanoparticles via dewetting of an Au/Ni bilayer. <i>Materials Letters</i> , 2013 , 102-103, 22-25	3.3	20
17	Nanoindentation of nano-Al/Si ₃ N ₄ multilayers with Vickers and Brinell indenters. <i>Journal of the European Ceramic Society</i> , 2013 , 33, 2355-2358	6	10
16	Understanding the fast lithium storage performance of hydrogenated TiO ₂ nanoparticles. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 14507	13	116
15	Luminescent ordered arrays of nanoporous silicon nanopillars and silicon nanopillars with nanoporous shells. <i>Materials Letters</i> , 2013 , 98, 186-189	3.3	7
14	Ordered arrays of patterned nanoporous silicon. <i>Journal of Micromechanics and Microengineering</i> , 2013 , 23, 074004	2	6
13	Silicon/silicide grown out of nanoporous gold nanoparticles. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013 , 210, 1512-1515	1.6	5
12	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> , 2013 , 210, 1544-1551	1.6	48
11	NiAu bi-metallic nanoparticles formed via dewetting. <i>Materials Letters</i> , 2012 , 70, 30-33	3.3	44
10	Thermal dewetting of thin Au films deposited onto line-patterned substrates. <i>Journal of Materials Science</i> , 2012 , 47, 1605-1608	4.3	34
9	Nanoporous gold nanoparticles. <i>Journal of Materials Chemistry</i> , 2012 , 22, 5344		98
8	Ordered arrays of nanoporous gold nanoparticles. <i>Beilstein Journal of Nanotechnology</i> , 2012 , 3, 651-7	3	48
7	Deformation behavior of Au/Ti multilayers under indentation. <i>Journal of Materials Science: Materials in Electronics</i> , 2012 , 23, 1077-1082	2.1	17
6	Formation of precise 2D Au particle arrays via thermally induced dewetting on pre-patterned substrates. <i>Beilstein Journal of Nanotechnology</i> , 2011 , 2, 318-26	3	89
5	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> , 2011 , 22, 1067-1070	2.1	31
4	Effect of length scale on fatigue life and damage formation in thin Cu films. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 493, 267-273	5.3	67
3	Investigation of NiAlN as gate-material for submicron CMOS technology. <i>Microelectronic Engineering</i> , 2004 , 76, 354-359	2.5	2
2	Ultrasensitive Strain Sensors Based on Cu-Al Alloy Films with Voided Cluster Boundaries. <i>Advanced Materials Technologies</i> , 2100524	6.8	0
1	Hydrogenated TiO ₂ Nanoparticles Loaded with Au Nanoclusters Demonstrating Largely Enhanced Performance for Electrochemical Reduction of Nitrogen to Ammonia. <i>Energy Technology</i> , 2200085	3.5	0

