## Nianqiang Wu

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Stable aqueous dispersions of graphitic nanoplatelets via the reduction of exfoliated graphite oxide in the presence of poly(sodium 4-styrenesulfonate). Journal of Materials Chemistry, 2006, 16, 155-158.	6.7	2,416
2	Nanostructured carbon–metal oxide composite electrodes for supercapacitors: a review. Nanoscale, 2013, 5, 72-88.	2.8	1,853
3	Origin of Photocatalytic Activity of Nitrogen-Doped TiO <sub>2</sub> Nanobelts. Journal of the American Chemical Society, 2009, 131, 12290-12297.	6.6	1,112
4	Photocatalytic Activity Enhanced by Plasmonic Resonant Energy Transfer from Metal to Semiconductor. Journal of the American Chemical Society, 2012, 134, 15033-15041.	6.6	1,052
5	Semiconductor-based photocatalysts and photoelectrochemical cells for solar fuel generation: a review. Catalysis Science and Technology, 2015, 5, 1360-1384.	2.1	824
6	Plasmon-enhanced optical sensors: a review. Analyst, The, 2015, 140, 386-406.	1.7	784
7	Shape-Enhanced Photocatalytic Activity of Single-Crystalline Anatase TiO <sub>2</sub> (101) Nanobelts. Journal of the American Chemical Society, 2010, 132, 6679-6685.	6.6	680
8	Interaction of Fatty Acid Monolayers with Cobalt Nanoparticles. Nano Letters, 2004, 4, 383-386.	4.5	666
9	Solar Hydrogen Generation by Nanoscale <i>p–n</i> Junction of <i>p</i> -type Molybdenum Disulfide/ <i>n</i> -type Nitrogen-Doped Reduced Graphene Oxide. Journal of the American Chemical Society, 2013, 135, 10286-10289.	6.6	599
10	Plasmon-induced resonance energy transfer for solar energy conversion. Nature Photonics, 2015, 9, 601-607.	15.6	587
11	Solar Hydrogen Generation by a CdS-Au-TiO <sub>2</sub> Sandwich Nanorod Array Enhanced with Au Nanoparticle as Electron Relay and Plasmonic Photosensitizer. Journal of the American Chemical Society, 2014, 136, 8438-8449.	6.6	533
12	A reduced graphene oxide/Co3O4 composite for supercapacitor electrode. Journal of Power Sources, 2013, 226, 65-70.	4.0	485
13	Ag@Cu <sub>2</sub> O Core-Shell Nanoparticles as Visible-Light Plasmonic Photocatalysts. ACS Catalysis, 2013, 3, 47-51.	5.5	471
14	Nanostructured Sensors for Detection of Heavy Metals: A Review. ACS Sustainable Chemistry and Engineering, 2013, 1, 713-723.	3.2	462
15	Mouse pulmonary dose- and time course-responses induced by exposure to multi-walled carbon nanotubes. Toxicology, 2010, 269, 136-147.	2.0	451
16	Plasmon-induced photonic and energy-transfer enhancement of solar water splitting by a hematite nanorod array. Nature Communications, 2013, 4, 2651.	5.8	427
17	Plasmonic metal–semiconductor photocatalysts and photoelectrochemical cells: a review. Nanoscale, 2018, 10, 2679-2696.	2.8	375
18	A Hierarchically Ordered Array of Silverâ€Nanorod Bundles for Surfaceâ€Enhanced Raman Scattering Detection of Phenolic Pollutants. Advanced Materials, 2016, 28, 4871-4876.	11.1	333

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19	Origin of Strong Excitation Wavelength Dependent Fluorescence of Graphene Oxide. ACS Nano, 2014, 8, 1002-1013.	7.3	328
20	Particle length-dependent titanium dioxide nanomaterials toxicity and bioactivity. Particle and Fibre Toxicology, 2009, 6, 35.	2.8	299
21	Single-crystalline Ni(OH)2 and NiO nanoplatelet arrays as supercapacitor electrodes. Nanoscale, 2011, 3, 5103.	2.8	287
22	Effects of Pore Structure on Performance of An Activated-Carbon Supercapacitor Electrode Recycled from Scrap Waste Tires. ACS Sustainable Chemistry and Engineering, 2014, 2, 1592-1598.	3.2	285
23	Li <sub>0.33</sub> La <sub>0.557</sub> TiO <sub>3</sub> ceramic nanofiber-enhanced polyethylene oxide-based composite polymer electrolytes for all-solid-state lithium batteries. Journal of Materials Chemistry A, 2018, 6, 4279-4285.	5.2	280
24	A review of 2D and 3D plasmonic nanostructure array patterns: fabrication, light management and sensing applications. Nanophotonics, 2019, 8, 2065-2089.	2.9	275
25	Fluorescence and Sensing Applications of Graphene Oxide and Graphene Quantum Dots: A Review. Chemistry - an Asian Journal, 2017, 12, 2343-2353.	1.7	265
26	Highly conductive electrospun carbon nanofiber/MnO2 coaxial nano-cables for high energy and power density supercapacitors. Journal of Power Sources, 2012, 208, 345-353.	4.0	243
27	Three-Dimensional Hierarchical Plasmonic Nano-Architecture Enhanced Surface-Enhanced Raman Scattering Immunosensor for Cancer Biomarker Detection in Blood Plasma. ACS Nano, 2013, 7, 4967-4976.	7.3	241
28	Detection of Mercury(II) by Quantum Dot/DNA/Gold Nanoparticle Ensemble Based Nanosensor Via Nanometal Surface Energy Transfer. Analytical Chemistry, 2011, 83, 7061-7065.	3.2	235
29	Photocatalytic Water Oxidation by Hematite/Reduced Graphene Oxide Composites. ACS Catalysis, 2013, 3, 746-751.	5.5	226
30	Progress and Perspectives of Plasmon-Enhanced Solar Energy Conversion. Journal of Physical Chemistry Letters, 2016, 7, 666-675.	2.1	220
31	Controlling Plasmon-Induced Resonance Energy Transfer and Hot Electron Injection Processes in Metal@TiO <sub>2</sub> Core–Shell Nanoparticles. Journal of Physical Chemistry C, 2015, 119, 16239-16244.	1.5	219
32	Fluorescent aptamer-functionalized graphene oxide biosensor for label-free detection of mercury(II). Biosensors and Bioelectronics, 2013, 41, 889-893.	5.3	216
33	Detection of lead (II) with a "turn-on―fluorescent biosensor based on energy transfer from CdSe/ZnS quantum dots to graphene oxide. Biosensors and Bioelectronics, 2013, 43, 69-74.	5.3	210
34	Crystalline Boron Nanoribbons:  Synthesis and Characterization. Nano Letters, 2004, 4, 963-968.	4.5	206
35	Size-Dependent Energy Transfer between CdSe/ZnS Quantum Dots and Gold Nanoparticles. Journal of Physical Chemistry Letters, 2011, 2, 2125-2129.	2.1	200
36	Fingerprinting photoluminescence of functional groups in graphene oxide. Journal of Materials Chemistry, 2012, 22, 23374.	6.7	198

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37	Visible light photocatalytic activity of nitrogen-doped La2Ti2O7 nanosheets originating from band gap narrowing. Nano Research, 2012, 5, 213-221.	5.8	197
38	Photoelectrochemical performance enhanced by a nickel oxide–hematite p–n junction photoanode. Chemical Communications, 2012, 48, 8213.	2.2	196
39	Reduced graphene oxide/titanium dioxide composites for supercapacitor electrodes: shape and coupling effects. Journal of Materials Chemistry, 2012, 22, 19161.	6.7	188
40	Detection of Adenosine Triphosphate with an Aptamer Biosensor Based on Surface-Enhanced Raman Scattering. Analytical Chemistry, 2012, 84, 2837-2842.	3.2	184
41	Interlaboratory Evaluation of <i>in Vitro</i> Cytotoxicity and Inflammatory Responses to Engineered Nanomaterials: The NIEHS Nano GO Consortium. Environmental Health Perspectives, 2013, 121, 683-690.	2.8	176
42	Effects of Defects on Photocatalytic Activity of Hydrogen-Treated Titanium Oxide Nanobelts. ACS Catalysis, 2017, 7, 1742-1748.	5.5	173
43	Effects of coal syngas impurities on anodes of solid oxide fuel cells. Journal of Power Sources, 2008, 185, 595-602.	4.0	171
44	Shape-dependent surface-enhanced Raman scattering in gold–Raman-probe–silica sandwiched nanoparticles for biocompatible applications. Nanotechnology, 2012, 23, 115501.	1.3	166
45	Acute pulmonary dose–responses to inhaled multi-walled carbon nanotubes. Nanotoxicology, 2013, 7, 1179-1194.	1.6	165
46	Review—Surface-Enhanced Raman Scattering Sensors for Food Safety and Environmental Monitoring. Journal of the Electrochemical Society, 2018, 165, B3098-B3118.	1.3	147
47	An intermediate-temperature solid oxide fuel cell with electrospun nanofiber cathode. Energy and Environmental Science, 2012, 5, 7066.	15.6	142
48	Plasmonic Nanorice Antenna on Triangle Nanoarray for Surface-Enhanced Raman Scattering Detection of Hepatitis B Virus DNA. Analytical Chemistry, 2013, 85, 2072-2078.	3.2	141
49	Detection of the ovarian cancer biomarker CA-125 using chemiluminescence resonance energy transfer to graphene quantum dots. Chemical Communications, 2014, 50, 1344-1346.	2.2	141
50	Plasmonic hot electrons for sensing, photodetection, and solar energy applications: A perspective. Journal of Chemical Physics, 2020, 152, 220901.	1.2	141
51	Paper-Based Surface-Enhanced Raman Scattering Lateral Flow Strip for Detection of Neuron-Specific Enolase in Blood Plasma. Analytical Chemistry, 2017, 89, 10104-10110.	3.2	134
52	Adsorption and Desorption of Stearic Acid Self-Assembled Monolayers on Aluminum Oxide. Langmuir, 2007, 23, 2444-2452.	1.6	133
53	Tuning the Charge-Transfer Property of PbS-Quantum Dot/TiO <sub>2</sub> -Nanobelt Nanohybrids via Quantum Confinement. Journal of Physical Chemistry Letters, 2010, 1, 1030-1035.	2.1	125
54	Towards controlled synthesis and better understanding of highly luminescent PbS/CdS core/shell quantum dots. Journal of Materials Chemistry, 2011, 21, 8898.	6.7	123

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55	Enhancement of Solar Hydrogen Generation by Synergistic Interaction of La <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> Photocatalyst with Plasmonic Gold Nanoparticles and Reduced Graphene Oxide Nanosheets. ACS Catalysis, 2015, 5, 1949-1955.	5.5	122
56	Direct Fibrogenic Effects of Dispersed Single-Walled Carbon Nanotubes on Human Lung Fibroblasts. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2010, 73, 410-422.	1.1	112
57	Direct Evidence of Oxidized Gold on Supported Gold Catalysts. Journal of Physical Chemistry B, 2005, 109, 3704-3706.	1.2	111
58	lonic conductivity and ion transport mechanisms of solidâ€state lithiumâ€ion battery electrolytes: A review. Energy Science and Engineering, 2022, 10, 1643-1671.	1.9	105
59	Nanofiber scaffold for cathode of solid oxidefuel cell. Energy and Environmental Science, 2011, 4, 417-420.	15.6	104
60	Garnet-rich composite solid electrolytes for dendrite-free, high-rate, solid-state lithium-metal batteries. Energy Storage Materials, 2020, 26, 448-456.	9.5	104
61	Visible-light and near-infrared fluorescence and surface-enhanced Raman scattering point-of-care sensing and bio-imaging: a review. Chemical Society Reviews, 2022, 51, 329-375.	18.7	104
62	Shape-Controlled Growth of Micrometer-Sized Gold Crystals by a Slow Reduction Method. Small, 2006, 2, 1046-1050.	5.2	99
63	A gold nanohole array based surface-enhanced Raman scattering biosensor for detection of silver( <scp>i</scp> ) and mercury( <scp>ii</scp> ) in human saliva. Nanoscale, 2015, 7, 11005-11012.	2.8	98
64	Flexible electrolyte-cathode bilayer framework with stabilized interface for room-temperature all-solid-state lithium-sulfur batteries. Energy Storage Materials, 2019, 17, 220-225.	9.5	98
65	NLRP3 inflammasome activation in murine alveolar macrophages and related lung pathology is associated with MWCNT nickel contamination. Inhalation Toxicology, 2012, 24, 995-1008.	0.8	96
66	Lignosulphonate-cellulose derived porous activated carbon for supercapacitor electrode. Journal of Materials Chemistry A, 2015, 3, 15049-15056.	5.2	93
67	Effect of multi-walled carbon nanotube surface modification on bioactivity in the C57BL/6 mouse model. Nanotoxicology, 2014, 8, 317-327.	1.6	90
68	Facile Scheme for Fabricating Solid-State Nanostructures Using E-Beam Lithography and Solution Precursors. Nano Letters, 2005, 5, 1710-1715.	4.5	85
69	Photocatalytic generation of hydrogen with visible-light nitrogen-doped lanthanum titanium oxides. Catalysis Today, 2013, 199, 48-52.	2.2	85
70	A gold@silica core–shell nanoparticle-based surface-enhanced Raman scattering biosensor for label-free glucose detection. Analytica Chimica Acta, 2014, 811, 76-80.	2.6	85
71	Chemical interaction and enhanced interfacial ion transport in a ceramic nanofiber–polymer composite electrolyte for all-solid-state lithium metal batteries. Journal of Materials Chemistry A, 2020, 8, 7261-7272.	5.2	85
72	Up―and Down onversion Cubic Zirconia and Hafnia Nanobelts. Advanced Materials, 2008, 20, 4826-4829.	11.1	84

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73	Electrospun activated carbon nanofibers for supercapacitor electrodes. RSC Advances, 2014, 4, 43619-43623.	1.7	84
74	Band gap modulation of functionalized metal–organic frameworks. Physical Chemistry Chemical Physics, 2014, 16, 23646-23653.	1.3	83
75	A Single-Ion Conducting UiO-66 Metal–Organic Framework Electrolyte for All-Solid-State Lithium Batteries. ACS Applied Energy Materials, 2020, 3, 4007-4013.	2.5	83
76	Single crystalline La <sub>0.5</sub> Sr <sub>0.5</sub> MnO <sub>3</sub> microcubes as cathode of solid oxidefuel cell. Energy and Environmental Science, 2011, 4, 139-144.	15.6	81
77	Microsized BiOCl Square Nanosheets as Ultraviolet Photodetectors and Photocatalysts. ACS Applied Materials & Interfaces, 2016, 8, 6662-6668.	4.0	81
78	Detection of Dithiocarbamate Pesticides with a Spongelike Surface-Enhanced Raman Scattering Substrate Made of Reduced Graphene Oxide-Wrapped Silver Nanocubes. ACS Applied Materials & Interfaces, 2017, 9, 39618-39625.	4.0	80
79	Porous CuO–ZnO nanocomposite for sensing electrode of high-temperature CO solid-state electrochemical sensor. Nanotechnology, 2005, 16, 2878-2881.	1.3	79
80	Visible light photocatalytic activity in nitrogen-doped TiO2 nanobelts. Applied Physics Letters, 2009, 94, 093101.	1.5	78
81	Enzyme Catalytic Efficiency: A Function of Bio–Nano Interface Reactions. ACS Applied Materials & Interfaces, 2014, 6, 5393-5403.	4.0	77
82	Plasmonic Resonance Energy Transfer Enhanced Photodynamic Therapy with Au@SiO <sub>2</sub> @Cu <sub>2</sub> O/Perfluorohexane Nanocomposites. ACS Applied Materials & Interfaces, 2018, 10, 6991-7002.	4.0	74
83	Metal–organic framework coated titanium dioxide nanorod array p–n heterojunction photoanode for solar water-splitting. Nano Research, 2019, 12, 643-650.	5.8	73
84	Plasmon-tunable Au@Ag core-shell spiky nanoparticles for surface-enhanced Raman scattering. Nano Research, 2019, 12, 449-455.	5.8	72
85	Electrochemical and microstructural analysis of nickel–yttria-stabilized zirconia electrode operated in phosphorus-containing syngas. Journal of Power Sources, 2008, 183, 485-490.	4.0	71
86	Effect of Al2O3 overlay on hot-corrosion behavior of yttria-stabilized zirconia coating in molten sulfate-vanadate salt. Thin Solid Films, 2003, 443, 46-52.	0.8	69
87	Tailoring plasmonic properties of gold nanohole arrays for surface-enhanced Raman scattering. Physical Chemistry Chemical Physics, 2015, 17, 21211-21219.	1.3	69
88	Effect of Fiber Length on Carbon Nanotube-Induced Fibrogenesis. International Journal of Molecular Sciences, 2014, 15, 7444-7461.	1.8	68
89	Purification and sidewall functionalization of multiwalled carbon nanotubes and resulting bioactivity in two macrophage models. Inhalation Toxicology, 2013, 25, 199-210.	0.8	65
90	Tunable Nonthermal Distribution of Hot Electrons in a Semiconductor Injected from a Plasmonic Gold Nanostructure. ACS Nano, 2018, 12, 7117-7126.	7.3	65

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91	Differential Mouse Pulmonary Dose and Time Course Responses to Titanium Dioxide Nanospheres and Nanobelts. Toxicological Sciences, 2013, 131, 179-193.	1.4	64
92	Origin of strong and narrow localized surface plasmon resonance of copper nanocubes. Nano Research, 2019, 12, 63-68.	5.8	64
93	ZnO-nanotaper array sacrificial templated synthesis of noble-metal building-block assembled nanotube arrays as 3D SERS-substrates. Nano Research, 2015, 8, 957-966.	5.8	62
94	Effect of N2 flow rate on morphology and structure of ZnO nanocrystals synthesized via vapor deposition. Scripta Materialia, 2005, 52, 63-67.	2.6	61
95	Study of the inorganic substitution in a functionalized UiO-66 metal–organic framework. Physical Chemistry Chemical Physics, 2016, 18, 12748-12754.	1.3	61
96	High-Performance 3-D Fiber Network Composite Electrolyte Enabled with Li-Ion Conducting Nanofibers and Amorphous PEO-Based Cross-Linked Polymer for Ambient All-Solid-State Lithium-Metal Batteries. Advanced Fiber Materials, 2019, 1, 46-60.	7.9	59
97	Theoretical maximum efficiency of solar energy conversion in plasmonic metal–semiconductor heterojunctions. Physical Chemistry Chemical Physics, 2015, 17, 30013-30022.	1.3	58
98	A lactate electrochemical biosensor with a titanate nanotube as direct electron transfer promoter. Nanotechnology, 2008, 19, 075502.	1.3	57
99	Dip-pen nanopatterning of photosensitive conducting polymer using a monomer ink. Applied Physics Letters, 2004, 84, 4200-4202.	1.5	56
100	Impedance-metric Pt/YSZ/Au–Ga2O3 sensor for CO detection at high temperature. Sensors and Actuators B: Chemical, 2005, 110, 49-53.	4.0	55
101	Photocatalytic hydrogen generation enhanced by band gap narrowing and improved charge carrier mobility in AgTaO3 by compensated co-doping. Physical Chemistry Chemical Physics, 2013, 15, 16220.	1.3	54
102	In situ construction of a titanate–silver nanoparticle–titanate sandwich nanostructure on a metallic titanium surface for bacteriostatic and biocompatible implants. Journal of Materials Chemistry, 2012, 22, 19151.	6.7	53
103	A large-area nanoscale gold hemisphere pattern as a nanoelectrode array. Nanotechnology, 2008, 19, 275301.	1.3	52
104	Electrochemical and optical biosensors based on nanomaterials and nanostructures: A Review. Frontiers in Bioscience - Scholar, 2011, S3, 1308.	0.8	52
105	Detection of nitrite with a surface-enhanced Raman scattering sensor based on silver nanopyramid array. Analytica Chimica Acta, 2018, 1040, 158-165.	2.6	50
106	User-Tailored Metal–Organic Frameworks as Supports for Carbonic Anhydrase. ACS Applied Materials & Interfaces, 2018, 10, 41326-41337.	4.0	49
107	IL-1R signalling is critical for regulation of multi-walled carbon nanotubes-induced acute lung inflammation in C57Bl/6 mice. Nanotoxicology, 2014, 8, 17-27.	1.6	48
108	Electrocatalytic Drug Metabolism by CYP2C9 Bonded to A Self-Assembled Monolayer-Modified Electrode. Drug Metabolism and Disposition, 2009, 37, 892-899.	1.7	47

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109	Synthesis and optical characterization of CdTe nanocrystals prepared by ball milling process. Scripta Materialia, 2003, 48, 1469-1474.	2.6	45
110	Tuning the shape and thermoelectric property of PbTe nanocrystals by bismuth doping. Nanoscale, 2010, 2, 1256.	2.8	45
111	Functionalization of a Metal-Organic Framework Semiconductor for Tuned Band Structure and Catalytic Activity. Journal of the Electrochemical Society, 2019, 166, H3029-H3034.	1.3	44
112	Asymmetric Silver "Nanocarrot―Structures: Solution Synthesis and Their Asymmetric Plasmonic Resonances. Journal of the American Chemical Society, 2013, 135, 9616-9619.	6.6	43
113	Mechanosynthesis mechanism of TiC powders. Materials Science and Technology, 1998, 14, 287-291.	0.8	42
114	Hot Corrosion Mechanism of Composite Alumina/Yttria-Stabilized Zirconia Coating in Molten Sulfate-Vanadate Salt. Journal of the American Ceramic Society, 2005, 88, 675-682.	1.9	42
115	Large-Area Well-Ordered Nanodot Array Pattern Fabricated With Self-Assembled Nanosphere Template. IEEE Sensors Journal, 2008, 8, 880-884.	2.4	40
116	Polymer-ceramic composite electrolytes for all-solid-state lithium batteries: Ionic conductivity and chemical interaction enhanced by oxygen vacancy in ceramic nanofibers. Journal of Power Sources, 2021, 495, 229796.	4.0	40
117	Length scale effect on mechanical behavior due to strain gradient plasticity. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 303, 241-249.	2.6	39
118	Visible-Light Localized Surface Plasmon Resonance of WO <sub>3–<i>x</i></sub> Nanosheets and Its Photocatalysis Driven by Plasmonic Hot Carriers. ACS Sustainable Chemistry and Engineering, 2021, 9, 1500-1506.	3.2	39
119	Synthesis, characterization, and bioactivity of carboxylic acid-functionalized titanium dioxide nanobelts. Particle and Fibre Toxicology, 2014, 11, 43.	2.8	38
120	Towards high efficiency air-processed near-infrared responsive photovoltaics: bulk heterojunction solar cells based on PbS/CdS core–shell quantum dots and TiO <sub>2</sub> nanorod arrays. Nanoscale, 2015, 7, 10039-10049.	2.8	38
121	Enabling Direct Protein Detection in a Drop of Whole Blood with an "On-Strip―Plasma Separation Unit in a Paper-Based Lateral Flow Strip. Analytical Chemistry, 2021, 93, 1326-1332.	3.2	38
122	Band gap narrowing in nitrogen-doped La <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> predicted by density-functional theory calculations. Physical Chemistry Chemical Physics, 2015, 17, 8994-9000.	1.3	37
123	Air-processed depleted bulk heterojunction solar cells based on PbS/CdS core–shell quantum dots and TiO2 nanorod arrays. Solar Energy Materials and Solar Cells, 2014, 124, 67-74.	3.0	35
124	A "hot Spot―Enhanced paper lateral flow assay for ultrasensitive detection of traumatic brain injury biomarker S-100β in blood plasma. Biosensors and Bioelectronics, 2021, 177, 112967.	5.3	34
125	Transport of Organic Solutes through Amorphous Teflon AF Films. Journal of the American Chemical Society, 2005, 127, 15112-15119.	6.6	33
126	Sol–gel derived La0.6Sr0.4CoO3 nanoparticles, nanotubes, nanowires and thin films. Thin Solid Films, 2008, 517, 582-587.	0.8	33

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127	Selective stamp bonding of PDMS microfluidic devices to polymer substrates for biological applications. Sensors and Actuators A: Physical, 2013, 193, 186-192.	2.0	33
128	Effects of titanium dioxide nanoparticles on human keratinocytes. Drug and Chemical Toxicology, 2017, 40, 90-100.	1.2	33
129	Molecular hot spots in surface-enhanced Raman scattering. Nanoscale, 2020, 12, 22036-22041.	2.8	33
130	Directed Fabrication of Radially Stacked Multifunctional Oxide Heterostructures Using Soft Electron-Beam Lithography. Small, 2006, 2, 274-280.	5.2	32
131	Failure detection of thermal barrier coatings using impedance spectroscopy. Thin Solid Films, 2004, 457, 301-306.	0.8	31
132	Incorporation of a Basil-Seed-Based Surface Enhanced Raman Scattering Sensor with a Pipet for Detection of Melamine. ACS Sensors, 2016, 1, 1193-1197.	4.0	29
133	Converting plasmonic light scattering to confined light absorption and creating plexcitons by coupling a gold nano-pyramid array onto a silica–gold film. Nanoscale Horizons, 2019, 4, 516-525.	4.1	29
134	Electrospun La0.8Sr0.2MnO3nanofibers for a high-temperature electrochemical carbon monoxide sensor. Nanotechnology, 2012, 23, 305501.	1.3	28
135	Amorphization in the Alî—,C system by mechanical alloying. Journal of Alloys and Compounds, 1997, 260, 121-126.	2.8	27
136	Tunable Visible-Light Surface Plasmon Resonance of Molybdenum Oxide Thin Films Fabricated by E-beam Evaporation. ACS Applied Electronic Materials, 2019, 1, 2389-2395.	2.0	27
137	Processing and mechanical behaviour of TiAl/NiAl intermetallic composites produced by cryogenic mechanical alloying. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 363, 275-289.	2.6	25
138	Ab initio calculation of electronic charge mobility in metal–organic frameworks. Physical Chemistry Chemical Physics, 2015, 17, 26160-26165.	1.3	25
139	Distinguishing surface effects of gold nanoparticles from plasmonic effect on photoelectrochemical water splitting by hematite. Journal of Materials Research, 2016, 31, 1608-1615.	1.2	25
140	Nanoparticle-based genetic transformation of Cannabis sativa. Journal of Biotechnology, 2021, 326, 48-51.	1.9	24
141	Interconnected cathode-electrolyte double-layer enabling continuous Li-ion conduction throughout solid-state Li-S battery. Energy Storage Materials, 2022, 44, 136-144.	9.5	24
142	Dipping into a drink: Basil-seed supported silver nanoparticles as surface-enhanced Raman scattering substrates for toxic molecule detection. Sensors and Actuators B: Chemical, 2016, 223, 447-452.	4.0	23
143	Tailoring Optical Properties of a Large-Area Plasmonic Gold Nanoring Array Pattern. Journal of Physical Chemistry C, 2018, 122, 13443-13449.	1.5	22
144	Synthesis and characterization of MCM-41-supported Ba2SiO4 base catalyst. Microporous and Mesoporous Materials, 2003, 59, 105-111.	2.2	21

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145	Interfacial Structure and Micro and Nano-Mechanical Behavior of Laser-Welded 6061 Aluminum Alloy Blank. Journal of Engineering Materials and Technology, Transactions of the ASME, 2004, 126, 8-13.	0.8	21
146	Anion bridged nanosheet from self-assembled G-quadruplexes. Chemical Communications, 2007, , 3148.	2.2	21
147	An ordered array of hierarchical spheres for surface-enhanced Raman scattering detection of traces of pesticide. Nanotechnology, 2016, 27, 384001.	1.3	21
148	Excitation wavelength dependent fluorescence of graphene oxide controlled by strain. Nanoscale, 2017, 9, 2240-2245.	2.8	21
149	Effect of surface functionalizations of multi-walled carbon nanotubes on neoplastic transformation potential in primary human lung epithelial cells. Nanotoxicology, 2017, 11, 613-624.	1.6	21
150	Investigation of TiC formation during ball-milling of elemental titanium and carbon. International Journal of Refractory Metals and Hard Materials, 1997, 15, 289-293.	1.7	20
151	Individually addressed large-scale patterning of conducting polymers by localized electric fields. Applied Physics Letters, 2004, 84, 828-830.	1.5	20
152	A Hierarchical Nanostructureâ€Based Surfaceâ€Enhanced Raman Scattering Sensor for Preconcentration and Detection of Antibiotic Pollutants. Advanced Materials Technologies, 2017, 2, 1700028.	3.0	20
153	Dual detection of cancer biomarker CA125 using absorbance and electrochemical methods. Analyst, The, 2013, 138, 5647.	1.7	19
154	Experimental and statistical analysis of surface charge, aggregation and adsorption behaviors of surface-functionalized titanium dioxide nanoparticles in aquatic system. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	19
155	A Surface-Enhanced Raman Scattering Sensor Integrated with Battery-Controlled Fluidic Device for Capture and Detection of Trace Small Molecules. Scientific Reports, 2015, 5, 12865.	1.6	19
156	Gaussian process based modeling and experimental design for sensor calibration in drifting environments. Sensors and Actuators B: Chemical, 2015, 216, 321-331.	4.0	19
157	Visible-Light Bismuth Iron Molybdate Photocatalyst for Artificial Nitrogen Fixation. Journal of the Electrochemical Society, 2019, 166, H3091-H3096.	1.3	19
158	Investigation of the plasmonic effect in air-processed PbS/CdS core–shell quantum dot based solar cells. Journal of Materials Chemistry A, 2016, 4, 13071-13080.	5.2	18
159	Impedance Characterization of ZnO Nanobelt/Pd Schottky Contacts in Ammonia. Small, 2006, 2, 1458-1461.	5.2	17
160	Smartphone-Based Sensors. Electrochemical Society Interface, 2016, 25, 79-81.	0.3	17
161	Length, but Not Reactive Edges, of Cup-stack MWCNT Is Responsible for Toxicity and Acute Lung Inflammation. Toxicologic Pathology, 2018, 46, 62-74.	0.9	17
162	Solar Photocatalysis. Solar Rrl, 2021, 5, 2100037.	3.1	16

#	Article	IF	CITATIONS
163	Effects of Bi-dopant and co-catalysts upon hole surface trapping on La2Ti2O7 nanosheet photocatalysts in overall solar water splitting. Nano Research, 2022, 15, 438-445.	5.8	16
164	Investigation of band gap narrowing in nitrogen-doped La <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> with transient absorption spectroscopy. Physical Chemistry Chemical Physics, 2015, 17, 31039-31043.	1.3	15
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181	Nitrogen-Doped Lithium Lanthanum Titanate Nanofiber-Polymer Composite Electrolytes for All-Solid-State Lithium Batteries. Journal of the Electrochemical Society, 2021, 168, 110507.	1.3	8
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199	Dynamic Calibration of Electrochemical Sensor for Accelerated Analyte Quantification. IEEE Sensors Journal, 2013, 13, 1192-1199.	2.4	2
200	Above and below band edge light recovery with plasmonics. Proceedings of SPIE, 2015, , .	0.8	2
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202	Enzyme-Based Technologies: Perspectives and Opportunities. ACS Symposium Series, 2013, , 15-27.	0.5	0
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205	A Paper-Based Lateral Flow Strip for Protein Biomarker Detection. ECS Meeting Abstracts, 2017, , .	0.0	0
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207	(Invited) Revisiting Functions of Gold Nanoparticles in Photocatalysis. ECS Meeting Abstracts, 2022, MA2022-01, 1573-1573.	0.0	0
208	(Invited) Engineering Interfaces in Solid-State Polymer-Ceramic Composite Electrolytes of Li-Ion Batteries. ECS Meeting Abstracts, 2022, MA2022-01, 1657-1657.	0.0	0
209	(Invited) Enhancing Fluorescence Biosensing By Near-Infrared Emission with Nanomaterials. ECS Meeting Abstracts, 2022, MA2022-01, 2180-2180.	0.0	0
210	(Keynote) Roles of Oxygen Vacancies in Metal Oxide Photocatalysts and Electrocatalysts. ECS Meeting Abstracts, 2022, MA2022-01, 2083-2083.	0.0	0