

Nianqiang Wu

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198
papers

22,637
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69
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149
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210
ext. papers

24,963
ext. citations

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avg, IF

7.31
L-index

#	Paper	IF	Citations
198	Stable aqueous dispersions of graphitic nanoplatelets via the reduction of exfoliated graphite oxide in the presence of poly(sodium 4-styrenesulfonate). <i>Journal of Materials Chemistry</i> , 2006 , 16, 155-158		2247
197	Nanostructured carbon-metal oxide composite electrodes for supercapacitors: a review. <i>Nanoscale</i> , 2013 , 5, 72-88	7.7	1608
196	Origin of photocatalytic activity of nitrogen-doped TiO ₂ nanobelts. <i>Journal of the American Chemical Society</i> , 2009 , 131, 12290-7	16.4	979
195	Photocatalytic activity enhanced by plasmonic resonant energy transfer from metal to semiconductor. <i>Journal of the American Chemical Society</i> , 2012 , 134, 15033-41	16.4	897
194	Semiconductor-based photocatalysts and photoelectrochemical cells for solar fuel generation: a review. <i>Catalysis Science and Technology</i> , 2015 , 5, 1360-1384	5.5	673
193	Shape-enhanced photocatalytic activity of single-crystalline anatase TiO ₂ (101) nanobelts. <i>Journal of the American Chemical Society</i> , 2010 , 132, 6679-85	16.4	624
192	Interaction of Fatty Acid Monolayers with Cobalt Nanoparticles. <i>Nano Letters</i> , 2004 , 4, 383-386	11.5	606
191	Plasmon-enhanced optical sensors: a review. <i>Analyst, The</i> , 2015 , 140, 386-406	5	584
190	Solar hydrogen generation by nanoscale p-n junction of p-type molybdenum disulfide/n-type nitrogen-doped reduced graphene oxide. <i>Journal of the American Chemical Society</i> , 2013 , 135, 10286-9	16.4	524
189	Solar hydrogen generation by a CdS-Au-TiO ₂ sandwich nanorod array enhanced with Au nanoparticle as electron relay and plasmonic photosensitizer. <i>Journal of the American Chemical Society</i> , 2014 , 136, 8438-49	16.4	472
188	Plasmon-induced resonance energy transfer for solar energy conversion. <i>Nature Photonics</i> , 2015 , 9, 601-607	9.9	446
187	20 Core-Shell Nanoparticles as Visible-Light Plasmonic Photocatalysts. <i>ACS Catalysis</i> , 2013 , 3, 47-51	13.1	420
186	Mouse pulmonary dose- and time course-responses induced by exposure to multi-walled carbon nanotubes. <i>Toxicology</i> , 2010 , 269, 136-47	4.4	403
185	A reduced graphene oxide/Co ₃ O ₄ composite for supercapacitor electrode. <i>Journal of Power Sources</i> , 2013 , 226, 65-70	8.9	397
184	Nanostructured Sensors for Detection of Heavy Metals: A Review. <i>ACS Sustainable Chemistry and Engineering</i> , 2013 , 1, 713-723	8.3	372
183	Plasmon-induced photonic and energy-transfer enhancement of solar water splitting by a hematite nanorod array. <i>Nature Communications</i> , 2013 , 4, 2651	17.4	357
182	Origin of strong excitation wavelength dependent fluorescence of graphene oxide. <i>ACS Nano</i> , 2014 , 8, 1002-13	16.7	280

181	Plasmonic metal-semiconductor photocatalysts and photoelectrochemical cells: a review. <i>Nanoscale</i> , 2018 , 10, 2679-2696	7.7	260
180	Single-crystalline Ni(OH) ₂ and NiO nanoplatelet arrays as supercapacitor electrodes. <i>Nanoscale</i> , 2011 , 3, 5103	7.7	259
179	Particle length-dependent titanium dioxide nanomaterials toxicity and bioactivity. <i>Particle and Fibre Toxicology</i> , 2009 , 6, 35	8.4	258
178	A Hierarchically Ordered Array of Silver-Nanorod Bundles for Surface-Enhanced Raman Scattering Detection of Phenolic Pollutants. <i>Advanced Materials</i> , 2016 , 28, 4871-6	24	239
177	Effects of Pore Structure on Performance of An Activated-Carbon Supercapacitor Electrode Recycled from Scrap Waste Tires. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 1592-1598	8.3	227
176	Highly conductive electrospun carbon nanofiber/MnO ₂ coaxial nano-cables for high energy and power density supercapacitors. <i>Journal of Power Sources</i> , 2012 , 208, 345-353	8.9	223
175	Detection of mercury(II) by quantum dot/DNA/gold nanoparticle ensemble based nanosensor via nanometal surface energy transfer. <i>Analytical Chemistry</i> , 2011 , 83, 7061-5	7.8	219
174	Photocatalytic Water Oxidation by Hematite/Reduced Graphene Oxide Composites. <i>ACS Catalysis</i> , 2013 , 3, 746-751	13.1	208
173	Three-dimensional hierarchical plasmonic nano-architecture enhanced surface-enhanced Raman scattering immunosensor for cancer biomarker detection in blood plasma. <i>ACS Nano</i> , 2013 , 7, 4967-76	16.7	205
172	Detection of lead (II) with a "turn-on" fluorescent biosensor based on energy transfer from CdSe/ZnS quantum dots to graphene oxide. <i>Biosensors and Bioelectronics</i> , 2013 , 43, 69-74	11.8	192
171	Fluorescent aptamer-functionalized graphene oxide biosensor for label-free detection of mercury(II). <i>Biosensors and Bioelectronics</i> , 2013 , 41, 889-93	11.8	189
170	Li _{0.33} La _{0.557} TiO ₃ ceramic nanofiber-enhanced polyethylene oxide-based composite polymer electrolytes for all-solid-state lithium batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 4279-4285	13	188
169	Size-Dependent Energy Transfer between CdSe/ZnS Quantum Dots and Gold Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 2125-2129	6.4	185
168	Controlling Plasmon-Induced Resonance Energy Transfer and Hot Electron Injection Processes in [email[protected]] Core/Shell Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 16239-16244	3.8	181
167	Progress and Perspectives of Plasmon-Enhanced Solar Energy Conversion. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 666-75	6.4	180
166	Crystalline Boron Nanoribbons: Synthesis and Characterization. <i>Nano Letters</i> , 2004 , 4, 963-968	11.5	180
165	Photoelectrochemical performance enhanced by a nickel oxide-hematite p-n junction photoanode. <i>Chemical Communications</i> , 2012 , 48, 8213-5	5.8	179
164	Visible light photocatalytic activity of nitrogen-doped La ₂ Ti ₂ O ₇ nanosheets originating from band gap narrowing. <i>Nano Research</i> , 2012 , 5, 213-221	10	173

163	Fluorescence and Sensing Applications of Graphene Oxide and Graphene Quantum Dots: A Review. <i>Chemistry - an Asian Journal</i> , 2017 , 12, 2343-2353	4.5	171
162	Detection of adenosine triphosphate with an aptamer biosensor based on surface-enhanced Raman scattering. <i>Analytical Chemistry</i> , 2012 , 84, 2837-42	7.8	166
161	Fingerprinting photoluminescence of functional groups in graphene oxide. <i>Journal of Materials Chemistry</i> , 2012 , 22, 23374		165
160	Reduced graphene oxide/titanium dioxide composites for supercapacitor electrodes: shape and coupling effects. <i>Journal of Materials Chemistry</i> , 2012 , 22, 19161		160
159	Effects of coal syngas impurities on anodes of solid oxide fuel cells. <i>Journal of Power Sources</i> , 2008 , 185, 595-602	8.9	156
158	Interlaboratory evaluation of in vitro cytotoxicity and inflammatory responses to engineered nanomaterials: the NIEHS Nano GO Consortium. <i>Environmental Health Perspectives</i> , 2013 , 121, 683-90	8.4	151
157	Acute pulmonary dose-responses to inhaled multi-walled carbon nanotubes. <i>Nanotoxicology</i> , 2013 , 7, 1179-94	5.3	150
156	Shape-dependent surface-enhanced Raman scattering in gold-Raman probe-silica sandwiched nanoparticles for biocompatible applications. <i>Nanotechnology</i> , 2012 , 23, 115501	3.4	142
155	Effects of Defects on Photocatalytic Activity of Hydrogen-Treated Titanium Oxide Nanobelts. <i>ACS Catalysis</i> , 2017 , 7, 1742-1748	13.1	129
154	Plasmonic nanorice antenna on triangle nanoarray for surface-enhanced Raman scattering detection of hepatitis B virus DNA. <i>Analytical Chemistry</i> , 2013 , 85, 2072-8	7.8	128
153	An intermediate-temperature solid oxide fuel cell with electrospun nanofiber cathode. <i>Energy and Environmental Science</i> , 2012 , 5, 7066	35.4	121
152	Detection of the ovarian cancer biomarker CA-125 using chemiluminescence resonance energy transfer to graphene quantum dots. <i>Chemical Communications</i> , 2014 , 50, 1344-6	5.8	120
151	Tuning the Charge-Transfer Property of PbS-Quantum Dot/TiO ₂ -Nanobelt Nanohybrids via Quantum Confinement. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 1030-1035	6.4	117
150	Adsorption and desorption of stearic acid self-assembled monolayers on aluminum oxide. <i>Langmuir</i> , 2007 , 23, 2444-52	4	117
149	Towards controlled synthesis and better understanding of highly luminescent PbS/CdS core/shell quantum dots. <i>Journal of Materials Chemistry</i> , 2011 , 21, 8898		115
148	A review of 2D and 3D plasmonic nanostructure array patterns: fabrication, light management and sensing applications. <i>Nanophotonics</i> , 2019 , 8, 2065-2089	6.3	113
147	Paper-Based Surface-Enhanced Raman Scattering Lateral Flow Strip for Detection of Neuron-Specific Enolase in Blood Plasma. <i>Analytical Chemistry</i> , 2017 , 89, 10104-10110	7.8	112
146	Enhancement of Solar Hydrogen Generation by Synergistic Interaction of La ₂ Ti ₂ O ₇ Photocatalyst with Plasmonic Gold Nanoparticles and Reduced Graphene Oxide Nanosheets. <i>ACS Catalysis</i> , 2015 , 5, 1949-1955	13.1	105

145	Direct evidence of oxidized gold on supported gold catalysts. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 3704-6	3.4	100
144	Direct fibrogenic effects of dispersed single-walled carbon nanotubes on human lung fibroblasts. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2010 , 73, 410-22	3.2	99
143	Nanofiber scaffold for cathode of solid oxide fuel cell. <i>Energy and Environmental Science</i> , 2011 , 4, 417-420	3.4	97
142	Shape-controlled growth of micrometer-sized gold crystals by a slow reduction method. <i>Small</i> , 2006 , 2, 1046-50	11	96
141	Review Surface-Enhanced Raman Scattering Sensors for Food Safety and Environmental Monitoring. <i>Journal of the Electrochemical Society</i> , 2018 , 165, B3098-B3118	3.9	88
140	NLRP3 inflammasome activation in murine alveolar macrophages and related lung pathology is associated with MWCNT nickel contamination. <i>Inhalation Toxicology</i> , 2012 , 24, 995-1008	2.7	87
139	Effect of multi-walled carbon nanotube surface modification on bioactivity in the C57BL/6 mouse model. <i>Nanotoxicology</i> , 2014 , 8, 317-27	5.3	83
138	Photocatalytic generation of hydrogen with visible-light nitrogen-doped lanthanum titanium oxides. <i>Catalysis Today</i> , 2013 , 199, 48-52	5.3	81
137	Facile scheme for fabricating solid-state nanostructures using e-beam lithography and solution precursors. <i>Nano Letters</i> , 2005 , 5, 1710-5	11.5	79
136	Up- and Down-Conversion Cubic Zirconia and Hafnia Nanobelts. <i>Advanced Materials</i> , 2008 , 20, 4826-4829	2.4	77
135	Visible light photocatalytic activity in nitrogen-doped TiO ₂ nanobelts. <i>Applied Physics Letters</i> , 2009 , 94, 093101	3.4	75
134	A gold@silica core-shell nanoparticle-based surface-enhanced Raman scattering biosensor for label-free glucose detection. <i>Analytica Chimica Acta</i> , 2014 , 811, 76-80	6.6	74
133	A gold nanohole array based surface-enhanced Raman scattering biosensor for detection of silver(I) and mercury(II) in human saliva. <i>Nanoscale</i> , 2015 , 7, 11005-12	7.7	74
132	Lignosulphonate-cellulose derived porous activated carbon for supercapacitor electrode. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 15049-15056	13	72
131	Enzyme catalytic efficiency: a function of bio-nano interface reactions. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 5393-403	9.5	71
130	Porous CuO/ZnO nanocomposite for sensing electrode of high-temperature CO solid-state electrochemical sensor. <i>Nanotechnology</i> , 2005 , 16, 2878-2881	3.4	70
129	Electrospun activated carbon nanofibers for supercapacitor electrodes. <i>RSC Advances</i> , 2014 , 4, 43619-43623	3.7	69
128	Microsized BiOCl Square Nanosheets as Ultraviolet Photodetectors and Photocatalysts. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 6662-8	9.5	67

127	Plasmonic hot electrons for sensing, photodetection, and solar energy applications: A perspective. <i>Journal of Chemical Physics</i> , 2020 , 152, 220901	3.9	65
126	Single crystalline La _{0.5} Sr _{0.5} MnO ₃ microcubes as cathode of solid oxide fuel cell. <i>Energy and Environmental Science</i> , 2011 , 4, 139-144	35.4	65
125	Electrochemical and microstructural analysis of nickel/yttria-stabilized zirconia electrode operated in phosphorus-containing syngas. <i>Journal of Power Sources</i> , 2008 , 183, 485-490	8.9	65
124	Effect of fiber length on carbon nanotube-induced fibrogenesis. <i>International Journal of Molecular Sciences</i> , 2014 , 15, 7444-61	6.3	62
123	Effect of Al ₂ O ₃ overlay on hot-corrosion behavior of yttria-stabilized zirconia coating in molten sulfate-vanadate salt. <i>Thin Solid Films</i> , 2003 , 443, 46-52	2.2	60
122	ZnO-nanotaper array sacrificial templated synthesis of noble-metal building-block assembled nanotube arrays as 3D SERS-substrates. <i>Nano Research</i> , 2015 , 8, 957-966	10	59
121	Band gap modulation of functionalized metal-organic frameworks. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 23646-53	3.6	57
120	Flexible electrolyte-cathode bilayer framework with stabilized interface for room-temperature all-solid-state lithium-sulfur batteries. <i>Energy Storage Materials</i> , 2019 , 17, 220-225	19.4	57
119	Purification and sidewall functionalization of multiwalled carbon nanotubes and resulting bioactivity in two macrophage models. <i>Inhalation Toxicology</i> , 2013 , 25, 199-210	2.7	56
118	Differential mouse pulmonary dose and time course responses to titanium dioxide nanospheres and nanobelts. <i>Toxicological Sciences</i> , 2013 , 131, 179-93	4.4	56
117	Dip-pen nanopatterning of photosensitive conducting polymer using a monomer ink. <i>Applied Physics Letters</i> , 2004 , 84, 4200-4202	3.4	56
116	Effect of N ₂ flow rate on morphology and structure of ZnO nanocrystals synthesized via vapor deposition. <i>Scripta Materialia</i> , 2005 , 52, 63-67	5.6	56
115	Detection of Dithiocarbamate Pesticides with a Spongelike Surface-Enhanced Raman Scattering Substrate Made of Reduced Graphene Oxide-Wrapped Silver Nanocubes. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 39618-39625	9.5	54
114	Tailoring plasmonic properties of gold nanohole arrays for surface-enhanced Raman scattering. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 21211-9	3.6	52
113	Theoretical maximum efficiency of solar energy conversion in plasmonic metal-semiconductor heterojunctions. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 30013-22	3.6	50
112	Metal-organic framework coated titanium dioxide nanorod array p-n heterojunction photoanode for solar water-splitting. <i>Nano Research</i> , 2019 , 12, 643-650	10	50
111	Plasmonic Resonance Energy Transfer Enhanced Photodynamic Therapy with Au@SiO ₂ @CuO/Perfluorohexane Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 6991-7002	9.5	47
110	A lactate electrochemical biosensor with a titanate nanotube as direct electron transfer promoter. <i>Nanotechnology</i> , 2008 , 19, 075502	3.4	47

109	A large-area nanoscale gold hemisphere pattern as a nanoelectrode array. <i>Nanotechnology</i> , 2008 , 19, 275301	3.4	47
108	Tunable Nonthermal Distribution of Hot Electrons in a Semiconductor Injected from a Plasmonic Gold Nanostructure. <i>ACS Nano</i> , 2018 , 12, 7117-7126	16.7	47
107	Photocatalytic hydrogen generation enhanced by band gap narrowing and improved charge carrier mobility in AgTaO ₃ by compensated co-doping. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 16220-6	3.6	46
106	In situ construction of a titanate-silver nanoparticle-titanate sandwich nanostructure on a metallic titanium surface for bacteriostatic and biocompatible implants. <i>Journal of Materials Chemistry</i> , 2012 , 22, 19151		46
105	Electrocatalytic drug metabolism by CYP2C9 bonded to a self-assembled monolayer-modified electrode. <i>Drug Metabolism and Disposition</i> , 2009 , 37, 892-9	4	46
104	Impedance-metric Pt/YSZ/Au-Ta ₂ O ₃ sensor for CO detection at high temperature. <i>Sensors and Actuators B: Chemical</i> , 2005 , 110, 49-53	8.5	46
103	Garnet-rich composite solid electrolytes for dendrite-free, high-rate, solid-state lithium-metal batteries. <i>Energy Storage Materials</i> , 2020 , 26, 448-456	19.4	46
102	Study of the inorganic substitution in a functionalized UiO-66 metal-organic framework. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 12748-54	3.6	45
101	Synthesis and optical characterization of CdTe nanocrystals prepared by ball milling process. <i>Scripta Materialia</i> , 2003 , 48, 1469-1474	5.6	43
100	IL-1R signalling is critical for regulation of multi-walled carbon nanotubes-induced acute lung inflammation in C57Bl/6 mice. <i>Nanotoxicology</i> , 2014 , 8, 17-27	5.3	42
99	Origin of strong and narrow localized surface plasmon resonance of copper nanocubes. <i>Nano Research</i> , 2019 , 12, 63-68	10	41
98	Chemical interaction and enhanced interfacial ion transport in a ceramic nanofiber-polymer composite electrolyte for all-solid-state lithium metal batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 7261-7272	13	40
97	Tuning the shape and thermoelectric property of PbTe nanocrystals by bismuth doping. <i>Nanoscale</i> , 2010 , 2, 1256-9	7.7	40
96	A Single-Ion Conducting UiO-66 Metal-Organic Framework Electrolyte for All-Solid-State Lithium Batteries. <i>ACS Applied Energy Materials</i> , 2020 , 3, 4007-4013	6.1	39
95	Mechanosynthesis mechanism of TiC powders. <i>Materials Science and Technology</i> , 1998 , 14, 287-291	1.5	39
94	Plasmon-tunable Au@Ag core-shell spiky nanoparticles for surface-enhanced Raman scattering. <i>Nano Research</i> , 2019 , 12, 449-455	10	39
93	Asymmetric silver "nanocarrot" structures: solution synthesis and their asymmetric plasmonic resonances. <i>Journal of the American Chemical Society</i> , 2013 , 135, 9616-9	16.4	38
92	Large-Area Well-Ordered Nanodot Array Pattern Fabricated With Self-Assembled Nanosphere Template. <i>IEEE Sensors Journal</i> , 2008 , 8, 880-884	4	38

91	Towards high efficiency air-processed near-infrared responsive photovoltaics: bulk heterojunction solar cells based on PbS/CdS core-shell quantum dots and TiO ₂ nanorod arrays. <i>Nanoscale</i> , 2015 , 7, 10039-49	7.7	37
90	Electrochemical and optical biosensors based on nanomaterials and nanostructures: a review. <i>Frontiers in Bioscience - Scholar</i> , 2011 , 3, 1308-31	2.4	37
89	Hot Corrosion Mechanism of Composite Alumina/Yttria-Stabilized Zirconia Coating in Molten Sulfate Vanadate Salt. <i>Journal of the American Ceramic Society</i> , 2005 , 88, 675-682	3.8	37
88	Length scale effect on mechanical behavior due to strain gradient plasticity. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001 , 303, 241-249	5.3	35
87	Air-processed depleted bulk heterojunction solar cells based on PbS/CdS core-shell quantum dots and TiO ₂ nanorod arrays. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 124, 67-74	6.4	34
86	Synthesis, characterization, and bioactivity of carboxylic acid-functionalized titanium dioxide nanobelts. <i>Particle and Fibre Toxicology</i> , 2014 , 11, 43	8.4	34
85	Transport of organic solutes through amorphous teflon AF films. <i>Journal of the American Chemical Society</i> , 2005 , 127, 15112-9	16.4	32
84	Band gap narrowing in nitrogen-doped La ₂ Ti ₂ O ₇ predicted by density-functional theory calculations. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 8994-9000	3.6	31
83	Directed fabrication of radially stacked multifunctional oxide heterostructures using soft electron-beam lithography. <i>Small</i> , 2006 , 2, 274-80	11	30
82	User-Tailored Metal-Organic Frameworks as Supports for Carbonic Anhydrase. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 41326-41337	9.5	30
81	Sol-gel derived La _{0.6} Sr _{0.4} CoO ₃ nanoparticles, nanotubes, nanowires and thin films. <i>Thin Solid Films</i> , 2008 , 517, 582-587	2.2	29
80	Failure detection of thermal barrier coatings using impedance spectroscopy. <i>Thin Solid Films</i> , 2004 , 457, 301-306	2.2	29
79	Detection of nitrite with a surface-enhanced Raman scattering sensor based on silver nanopyramid array. <i>Analytica Chimica Acta</i> , 2018 , 1040, 158-165	6.6	28
78	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. <i>Advanced Fiber Materials</i> , 2019 , 1, 46-60	10.9	26
77	Selective stamp bonding of PDMS microfluidic devices to polymer substrates for biological applications. <i>Sensors and Actuators A: Physical</i> , 2013 , 193, 186-192	3.9	26
76	Functionalization of a Metal-Organic Framework Semiconductor for Tuned Band Structure and Catalytic Activity. <i>Journal of the Electrochemical Society</i> , 2019 , 166, H3029-H3034	3.9	26
75	Electrospun La _{0.8} Sr _{0.2} MnO ₃ nanofibers for a high-temperature electrochemical carbon monoxide sensor. <i>Nanotechnology</i> , 2012 , 23, 305501	3.4	25
74	Amorphization in the Al ₂ C system by mechanical alloying. <i>Journal of Alloys and Compounds</i> , 1997 , 260, 121-126	5.7	25

73	Distinguishing surface effects of gold nanoparticles from plasmonic effect on photoelectrochemical water splitting by hematite. <i>Journal of Materials Research</i> , 2016 , 31, 1608-1615	2.5	23
72	Processing and mechanical behaviour of TiAl/NiAl intermetallic composites produced by cryogenic mechanical alloying. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 363, 275-289	5.3	23
71	Effects of titanium dioxide nanoparticles on human keratinocytes. <i>Drug and Chemical Toxicology</i> , 2017 , 40, 90-100	2.3	22
70	Dipping into a drink: Basil-seed supported silver nanoparticles as surface-enhanced Raman scattering substrates for toxic molecule detection. <i>Sensors and Actuators B: Chemical</i> , 2016 , 223, 447-452	8.5	21
69	Investigation of TiC formation during ball-milling of elemental titanium and carbon. <i>International Journal of Refractory Metals and Hard Materials</i> , 1997 , 15, 289-293	4.1	20
68	Anion bridged nanosheet from self-assembled G-quadruplexes. <i>Chemical Communications</i> , 2007 , 3148-50	3.8	20
67	Interfacial Structure and Micro and Nano-Mechanical Behavior of Laser-Welded 6061 Aluminum Alloy Blank. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2004 , 126, 8-13	1.8	20
66	Incorporation of a Basil-Seed-Based Surface Enhanced Raman Scattering Sensor with a Pipet for Detection of Melamine. <i>ACS Sensors</i> , 2016 , 1, 1193-1197	9.2	20
65	Effect of surface functionalizations of multi-walled carbon nanotubes on neoplastic transformation potential in primary human lung epithelial cells. <i>Nanotoxicology</i> , 2017 , 11, 613-624	5.3	18
64	Synthesis and characterization of MCM-41-supported Ba ₂ SiO ₄ base catalyst. <i>Microporous and Mesoporous Materials</i> , 2003 , 59, 105-111	5.3	18
63	A Hierarchical Nanostructure-Based Surface-Enhanced Raman Scattering Sensor for Preconcentration and Detection of Antibiotic Pollutants. <i>Advanced Materials Technologies</i> , 2017 , 2, 1700028	6.8	17
62	Tailoring Optical Properties of a Large-Area Plasmonic Gold Nanoring Array Pattern. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 13443-13449	3.8	17
61	Dual detection of cancer biomarker CA125 using absorbance and electrochemical methods. <i>Analyst, The</i> , 2013 , 138, 5647-53	5	17
60	Experimental and statistical analysis of surface charge, aggregation and adsorption behaviors of surface-functionalized titanium dioxide nanoparticles in aquatic system. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	17
59	A Surface-Enhanced Raman Scattering Sensor Integrated with Battery-Controlled Fluidic Device for Capture and Detection of Trace Small Molecules. <i>Scientific Reports</i> , 2015 , 5, 12865	4.9	17
58	Impedance characterization of ZnO nanobelt/Pd Schottky contacts in ammonia. <i>Small</i> , 2006 , 2, 1458-61	11	17
57	A "hot Spot"-Enhanced paper lateral flow assay for ultrasensitive detection of traumatic brain injury biomarker S-100 β in blood plasma. <i>Biosensors and Bioelectronics</i> , 2021 , 177, 112967	11.8	17
56	Enabling Direct Protein Detection in a Drop of Whole Blood with an "On-Strip" Plasma Separation Unit in a Paper-Based Lateral Flow Strip. <i>Analytical Chemistry</i> , 2021 , 93, 1326-1332	7.8	17

55	Converting Plasmonic Light Scattering to Confined Light Absorption and Creating Plexcitons by Coupling a Gold Nano-pyramid Array onto a Silica-Gold Film. <i>Nanoscale Horizons</i> , 2019 , 4, 516-525	10.8	16
54	Ab initio calculation of electronic charge mobility in metal-organic frameworks. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 26160-5	3.6	16
53	Tunable Visible-Light Surface Plasmon Resonance of Molybdenum Oxide Thin Films Fabricated by E-beam Evaporation. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 2389-2395	4	16
52	Individually addressed large-scale patterning of conducting polymers by localized electric fields. <i>Applied Physics Letters</i> , 2004 , 84, 828-830	3.4	16
51	An ordered array of hierarchical spheres for surface-enhanced Raman scattering detection of traces of pesticide. <i>Nanotechnology</i> , 2016 , 27, 384001	3.4	16
50	Visible-Light Bismuth Iron Molybdate Photocatalyst for Artificial Nitrogen Fixation. <i>Journal of the Electrochemical Society</i> , 2019 , 166, H3091-H3096	3.9	16
49	Excitation wavelength dependent fluorescence of graphene oxide controlled by strain. <i>Nanoscale</i> , 2017 , 9, 2240-2245	7.7	15
48	Visible-Light Localized Surface Plasmon Resonance of WO ₃ Nanosheets and Its Photocatalysis Driven by Plasmonic Hot Carriers. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 1500-1506	8.3	15
47	Origin of localized surface plasmon resonances in thin silver film over nanosphere patterns. <i>Applied Physics A: Materials Science and Processing</i> , 2011 , 103, 955-958	2.6	14
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