

Guowen Meng

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.

115
papers

4,730
citations

39
h-index

65
g-index

120
ext. papers

5,247
ext. citations

8.1
avg, IF

5.58
L-index

#	Paper	IF	Citations
115	Ag-coated 3D Cu(OH) ₂ nanowires on the woven copper mesh as a cost-effective surface-enhanced Raman scattering substrate. <i>Surface and Coatings Technology</i> , 2021 , 415, 127132	4.4	5
114	Template-assisted fabrication of Ag-nanoparticles@ZnO-nanorods array as recyclable 3D surface enhanced Raman scattering substrate for rapid detection of trace pesticides. <i>Nanotechnology</i> , 2021 , 32, 145302	3.4	12
113	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
112	Scalable and controllable fabrication of CNTs improved yolk-shelled Si anodes with advanced in operando mechanical quantification. <i>Energy and Environmental Science</i> , 2021 , 14, 3502-3509	35.4	14
111	A high performance Li-rich Li ₂ IrO ₃ electrode for symmetric lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 19705-19709	13	2
110	Plasmonic hot electrons for sensing, photodetection, and solar energy applications: A perspective. <i>Journal of Chemical Physics</i> , 2020 , 152, 220901	3.9	65
109	Silver nanoparticle-assembled micro-bowl arrays for sensitive SERS detection of pesticide residue. <i>Nanotechnology</i> , 2020 , 31, 205303	3.4	16
108	Ag-Nanoparticles-Decorated Ge-Nanowhisker Grafted on Carbon Fiber Cloth as Flexible and Effective SERS Substrates. <i>ChemistrySelect</i> , 2020 , 5, 8338-8343	1.8	3
107	Ag-Nanoparticles@Bacterial Nanocellulose as a 3D Flexible and Robust Surface-Enhanced Raman Scattering Substrate. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 50713-50720	9.5	24
106	Plasmon-tunable Au@Ag core-shell spiky nanoparticles for surface-enhanced Raman scattering. <i>Nano Research</i> , 2019 , 12, 449-455	10	39
105	Rational design of novel nanostructured arrays based on porous AAO templates for electrochemical energy storage and conversion. <i>Nano Energy</i> , 2019 , 55, 234-259	17.1	41
104	Enhancing potassium-ion battery performance by defect and interlayer engineering. <i>Nanoscale Horizons</i> , 2019 , 4, 202-207	10.8	73
103	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
102	Porous AAO template-assisted rational synthesis of large-scale 1D hybrid and hierarchically branched nanoarchitectures. <i>Progress in Materials Science</i> , 2018 , 95, 243-285	42.2	30
101	Superstructural Raman Nanosensors with Integrated Dual Functions for Ultrasensitive Detection and Tunable Release of Molecules. <i>Chemistry of Materials</i> , 2018 , 30, 5256-5263	9.6	10
100	A silver-grafted sponge as an effective surface-enhanced Raman scattering substrate. <i>Sensors and Actuators B: Chemical</i> , 2018 , 258, 56-63	8.5	24
99	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

98	Fluorophores-modified nanomaterials for trace detection of polychlorobiphenyls and heavy metal ions. <i>Sensors and Actuators B: Chemical</i> , 2017 , 243, 1137-1147	8.5	14
97	Electrosprayed large-area membranes of Ag-nanocubes embedded in cellulose acetate microspheres as homogeneous SERS substrates. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 1402-1408	7.1	19
96	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
95	Long-range surface plasmon resonance and surface-enhanced Raman scattering on X-shaped gold plasmonic nanohole arrays. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 24126-24134	3.6	15
94	Surface-enhanced Raman scattering from plasmonic Ag-nanocube@Au-nanospheres core@satellites. <i>Journal of Raman Spectroscopy</i> , 2017 , 48, 217-223	2.3	6
93	A flexible transparent Ag-NC@PE film as a cut-and-paste SERS substrate for rapid in situ detection of organic pollutants. <i>Analyst, The</i> , 2016 , 141, 5864-5869	5	63
92	Fluorescence Turn on Detection of Cr ³⁺ using N-doped-CDs and graphitic nanosheet hybrids. <i>RSC Advances</i> , 2016 , 6, 72728-72732	3.7	7
91	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
90	Highly sensitive fibre surface-enhanced Raman scattering probes fabricated using laser-induced self-assembly in a meniscus. <i>Nanoscale</i> , 2016 , 8, 10607-14	7.7	26
89	Highly Sensitive and Selective Surface-Enhanced Raman Spectroscopy Label-free Detection of 3,3',4,4'-Tetrachlorobiphenyl Using DNA Aptamer-Modified Ag-Nanorod Arrays. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 5723-8	9.5	65
88	Ordered arrays of Ag nanodendrite clusters as effective surface-enhanced Raman scattering substrates. <i>RSC Advances</i> , 2016 , 6, 26490-26494	3.7	7
87	Surface-Enhanced Raman Scattering from Au-Nanorod Arrays with Sub-5-nm Gaps Stuck Out of an AAO Template. <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 934-8	1.3	8
86	Fabrication of hexagonally patterned flower-like silver particle arrays as surface-enhanced Raman scattering substrates. <i>Nanotechnology</i> , 2016 , 27, 325303	3.4	5
85	Silver-Nanorod Bundles: A Hierarchically Ordered Array of Silver-Nanorod Bundles for Surface-Enhanced Raman Scattering Detection of Phenolic Pollutants (Adv. Mater. 24/2016). <i>Advanced Materials</i> , 2016 , 28, 4870	24	7
84	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
83	CNTs-anchored egg shell membrane decorated with Ag-NPs as cheap but effective SERS substrates. <i>Science China Materials</i> , 2015 , 58, 198-203	7.1	13
82	Hexagonally arranged arrays of urchin-like Ag hemispheres decorated with Ag nanoparticles for surface-enhanced Raman scattering substrates. <i>Nano Research</i> , 2015 , 8, 2261-2270	10	30
81	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

80	R6G/8-AQ co-functionalized Fe ₃ O ₄ @SiO ₂ nanoparticles for fluorescence detection of trace Hg ²⁺ and Zn ²⁺ in aqueous solution. <i>Science China Materials</i> , 2015 , 58, 550-558	7.1	7
79	Dielectric capacitors with three-dimensional nanoscale interdigital electrodes for energy storage. <i>Science Advances</i> , 2015 , 1, e1500605	14.3	45
78	Ag-NP@Ge-nanotaper/Si-micropillar ordered arrays as ultrasensitive and uniform surface enhanced Raman scattering substrates. <i>Nanoscale</i> , 2015 , 7, 18218-24	7.7	19
77	Tapered Optical Fiber Probe Assembled with Plasmonic Nanostructures for Surface-Enhanced Raman Scattering Application. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 17247-54	9.5	47
76	Spinach-extracted chlorophyll-a modified peanut shell as fluorescence sensors for selective detection of Hg ²⁺ in water. <i>Sensors and Actuators B: Chemical</i> , 2015 , 209, 237-241	8.5	13
75	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
74	Growth kinetics controlled rational synthesis of germanium nanotowers in chemical vapor deposition. <i>Science China Materials</i> , 2015 , 58, 877-883	7.1	
73	Ag Nanoparticle-Grafted PAN-Nanohump Array Films with 3D High-Density Hot Spots as Flexible and Reliable SERS Substrates. <i>Small</i> , 2015 , 11, 5452-9	11	90
72	Enhanced cold field emission of large-area arrays of vertically aligned ZnO-nanotapers via sharpening: experiment and theory. <i>Scientific Reports</i> , 2014 , 4, 4676	4.9	35
71	Flexible membranes of Ag-nanosheet-grafted polyamide-nanofibers as effective 3D SERS substrates. <i>Nanoscale</i> , 2014 , 6, 4781-8	7.7	78
70	Label-free selective SERS detection of PCB-77 based on DNA aptamer modified SiO ₂ @Au core/shell nanoparticles. <i>Analyst, The</i> , 2014 , 139, 3083-7	5	41
69	Ag-nanoparticle-decorated Au-fractal patterns on bowl-like-dimple arrays on Al foil as an effective SERS substrate for the rapid detection of PCBs. <i>Chemical Communications</i> , 2014 , 50, 569-71	5.8	29
68	Ag-nanoparticle-decorated porous ZnO-nanosheets grafted on a carbon fiber cloth as effective SERS substrates. <i>Nanoscale</i> , 2014 , 6, 15280-5	7.7	49
67	Ag-nanoparticles-decorated NiO-nanoflakes grafted Ni-nanorod arrays stuck out of porous AAO as effective SERS substrates. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 3686-92	3.6	35
66	Urchin-like Au-nanoparticles@Ag-nanohemisphere arrays as active SERS-substrates for recognition of PCBs. <i>RSC Advances</i> , 2014 , 4, 19654-19657	3.7	15
65	Green synthesis of large-scale highly ordered core@shell nanoporous Au@Ag nanorod arrays as sensitive and reproducible 3D SERS substrates. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 15667-73	9.5	101
64	Iodine-based fluorescent and colorimetric sensing for Ag ⁺ , Hg ²⁺ , Fe ³⁺ , and further for halide ions in aqueous solution. <i>RSC Advances</i> , 2014 , 4, 8055-8058	3.7	13
63	Polyacrylic acid sodium salt film entrapped Ag-nanocubes as molecule traps for SERS detection. <i>Nano Research</i> , 2014 , 7, 1177-1187	10	27

62	Ordered arrays of Au-nanobowls loaded with Ag-nanoparticles as effective SERS substrates for rapid detection of PCBs. <i>Nanotechnology</i> , 2014 , 25, 145605	3.4	32
61	Improved sensitivity of polychlorinated-biphenyl-orientated porous-ZnO surface photovoltage sensors from chemisorption-formed ZnO-CuPc composites. <i>Scientific Reports</i> , 2014 , 4, 4284	4.9	13
60	Ag-nanoparticle-decorated Ge nanocap arrays protruding from porous anodic aluminum oxide as sensitive and reproducible surface-enhanced Raman scattering substrates. <i>Langmuir</i> , 2014 , 30, 13964-9	4	16
59	Fluorophore-modified Fe ₃ O ₄ -magnetic-nanoparticles for determination of heavy metal ions in water. <i>Sensors and Actuators B: Chemical</i> , 2013 , 185, 47-52	8.5	11
58	Nanocontainers made of various materials with tunable shape and size. <i>Scientific Reports</i> , 2013 , 3, 2238	4.9	20
57	Gap-tunable Ag-nanorod arrays on alumina nanotip arrays as effective SERS substrates. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 5015	7.1	43
56	A facile low-temperature growth of large-scale uniform two-end-open Ge nanotubes with hierarchical branches. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 5471	7.1	1
55	Large-area Ag nanorod array substrates for SERS: AAO template-assisted fabrication, functionalization, and application in detection PCBs. <i>Journal of Raman Spectroscopy</i> , 2013 , 44, 240-246	2.3	100
54	A Generic Synthetic Approach to Large-Scale Pristine-Graphene/Metal-Nanoparticles Hybrids. <i>Advanced Functional Materials</i> , 2013 , 23, 5771-5777	15.6	40
53	Ostwald-ripening-induced growth of parallel face-exposed Ag nanoplates on micro-hemispheres for high SERS activity. <i>Chemistry - A European Journal</i> , 2013 , 19, 9211-7	4.8	12
52	Porous Anodic Aluminum Oxide 2013 , 859-882		
51	Vertically aligned Ag nanoplate-assembled film as a sensitive and reproducible SERS substrate for the detection of PCB-77. <i>Journal of Hazardous Materials</i> , 2012 , 211-212, 389-95	12.8	63
50	Arrays of Cone-Shaped ZnO Nanorods Decorated with Ag Nanoparticles as 3D Surface-Enhanced Raman Scattering Substrates for Rapid Detection of Trace Polychlorinated Biphenyls. <i>Advanced Functional Materials</i> , 2012 , 22, 218-224	15.6	283
49	Galvanic-cell-induced growth of Ag nanosheet-assembled structures as sensitive and reproducible SERS substrates. <i>Chemistry - A European Journal</i> , 2012 , 18, 14948-53	4.8	32
48	Large-scale well-separated Ag nanosheet-assembled micro-hemispheres modified with HS-EC ₃ D as effective SERS substrates for trace detection of PCBs. <i>Journal of Materials Chemistry</i> , 2012 , 22, 2271-2278		57
47	Electrospun 1,4-DHAQ-doped cellulose nanofiber films for reusable fluorescence detection of trace Cu ²⁺ and further for Cr ³⁺ . <i>Environmental Science & Technology</i> , 2012 , 46, 367-73	10.3	77
46	A GBI@PPyNWs-based prototype of reusable fluorescence sensor for the detection of Fe ³⁺ in aqueous solution. <i>Analytical Methods</i> , 2012 , 4, 2653	3.2	9
45	Fluorescent Probes: Well-Defined Nanoclusters as Fluorescent Nanosensors: A Case Study on Au ₂₅ (SG) ₁₈ (Small 13/2012). <i>Small</i> , 2012 , 8, 2027-2027	11	5

44	Nanochannel-directed growth of multi-segment nanowire heterojunctions of metallic Au(1-x)Ge(x) and semiconducting Ge. <i>ACS Nano</i> , 2012 , 6, 831-6	16.7	18
43	Large-scale homogeneously distributed Ag-NPs with sub-10 nm gaps assembled on a two-layered honeycomb-like TiO ₂ film as sensitive and reproducible SERS substrates. <i>Nanotechnology</i> , 2012 , 23, 3857-65	7.1	30
42	Controlled synthesis of germanium nanowires and nanotubes with variable morphologies and sizes. <i>Nano Letters</i> , 2011 , 11, 1704-9	11.5	40
41	Fluorescence detection of trace PCB101 based on PITC immobilized on porous AAO membrane. <i>Analyst, The</i> , 2011 , 136, 278-81	5	26
40	Ag nanosheet-assembled micro-hemispheres as effective SERS substrates. <i>Chemical Communications</i> , 2011 , 47, 2709-11	5.8	97
39	Alumina-Sheathed Nanocables with Cores Consisting of Various Structures and Materials. <i>Angewandte Chemie</i> , 2011 , 123, 2084-2088	3.6	2
38	Alumina-sheathed nanocables with cores consisting of various structures and materials. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 2036-40	16.4	9
37	Au Hierarchical Micro/Nanotower Arrays and Their Improved SERS Effect by Ag Nanoparticle Decoration. <i>Crystal Growth and Design</i> , 2011 , 11, 748-752	3.5	30
36	Aligned ZnO Nanorods with Tunable Size and Field Emission on Native Si Substrate Achieved via Simple Electrodeposition. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 189-193	3.8	47
35	Prototype of a porous ZnO SPV-based sensor for PCB detection at room temperature under visible light illumination. <i>Langmuir</i> , 2010 , 26, 13703-6	4	24
34	Crystalline silicon nanotubes and their connections with gold nanowires in both linear and branched topologies. <i>ACS Nano</i> , 2010 , 4, 7105-12	16.7	12
33	Synthesis of AuNi/NiO Nanocables by Porous AAO Template Assisted Galvanic Deposition and Subsequent Oxidation. <i>European Journal of Inorganic Chemistry</i> , 2010 , 2010, 4309-4313	2.3	3
32	Branched Silicon Nanotubes and Metal Nanowires via AAO-Template-Assistant Approach. <i>Advanced Functional Materials</i> , 2010 , 20, 3791-3796	15.6	45
31	Color fine-tuning of CNTs@AAO composite thin films via isotropically etching porous AAO before CNT growth and color modification by water infusion. <i>Advanced Materials</i> , 2010 , 22, 2637-41	24	46
30	Improved SERS performance from Au nanopillar arrays by abridging the pillar tip spacing by Ag sputtering. <i>Advanced Materials</i> , 2010 , 22, 4136-9	24	196
29	Synthesis and thermal expansion of copper nanotubes and nanowires with Y- and step-shaped topologies. <i>Small</i> , 2010 , 6, 381-5	11	8
28	Controlled fabrication of gold and polypyrrole nanowires with straight and branched morphologies via porous alumina template-assisted approach. <i>Materials Letters</i> , 2009 , 63, 1431-1434	3.3	27
27	Building desired heterojunctions of semiconductor CdS nanowire and carbon nanotube via AAO template-based approach. <i>Materials Letters</i> , 2009 , 63, 2249-2252	3.3	14

26	A General Synthetic Approach to Interconnected Nanowire/Nanotube and Nanotube/Nanowire/Nanotube Heterojunctions with Branched Topology. <i>Angewandte Chemie</i> , 2009 , 121, 7302-7306	3.6	9
25	A general synthetic approach to interconnected nanowire/nanotube and nanotube/nanowire/nanotube heterojunctions with branched topology. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 7166-70	16.4	62
24	Synthesis of vertically oriented GaN nanowires on a LiAlO ₂ substrate via chemical vapor deposition. <i>Nano Research</i> , 2009 , 2, 321-326	10	16
23	A Generic Approach to Desired Metallic Nanowires Inside Native Porous Alumina Template via Redox Reaction. <i>Chemistry of Materials</i> , 2009 , 21, 2397-2402	9.6	27
22	Aligned SiC Porous Nanowire Arrays with Excellent Field Emission Properties Converted from Si Nanowires on Silicon Wafer. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 20126-20130	3.8	69
21	Synthesis and Photoluminescence of Si-Related Nanowires Using Porous Silicon as Si Element Source. <i>Crystal Growth and Design</i> , 2008 , 8, 1818-1822	3.5	9
20	Converting free-standing porous silicon into related porous membranes. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 365-7	16.4	3
19	Electrochemical synthesis of metal and semimetal nanotube-nanowire heterojunctions and their electronic transport properties. <i>Chemical Communications</i> , 2007 , 1733-5	5.8	37
18	Periodically twinned nanowires and polytypic nanobelts of ZnS: The role of mass diffusion in vapor-liquid-solid growth. <i>Nano Letters</i> , 2006 , 6, 1650-5	11.5	201
17	Tuning the architecture of MgO nanostructures by chemical vapour transport and condensation. <i>Nanotechnology</i> , 2006 , 17, 5006-5012	3.4	27
16	High-density, aligned SiO ₂ nanowire arrays: microscopic imaging of the unique growth style and their ultraviolet light emission properties. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 15724-8	3.4	29
15	Mesh-Like Hemispherical Shells Formed by Self-Assembly of Zn ₂ SiO ₄ Textured Nanowires. <i>Crystal Growth and Design</i> , 2006 , 6, 1967-1971	3.5	17
14	SiO ₂ nanowires growing on hexagonally arranged circular patterns surrounded by TiO ₂ films. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 222-6	3.4	11
13	Kinetics-driven growth of orthogonally branched single-crystalline magnesium oxide nanostructures. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 11204-8	3.4	108
12	Controlled Synthesis of In ₂ O ₃ Octahedrons and Nanowires. <i>Crystal Growth and Design</i> , 2005 , 5, 1617-1631	3.5	163
11	Reversible blue light emission from self-assembled silica nanocords. <i>Applied Physics Letters</i> , 2005 , 87, 033106	3.4	33
10	Controlled fabrication of hierarchically branched nanopores, nanotubes, and nanowires. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 7074-8	11.5	271
9	Carbon nanotubes grafted on silicon oxide nanowires. <i>Journal of Nanoscience and Nanotechnology</i> , 2004 , 4, 712-5	1.3	5

- 8 Vertically aligned conductive carbon nanotube junctions and arrays for device applications. *Applied Physics Letters*, **2004**, 84, 2889-2891 3.4 8
- 7 Y-branched Bi nanowires with metal-semiconductor junction behavior. *Applied Physics Letters*, **2004**, 85, 967-969 3.4 40
- 6 Ultraviolet photoluminescence of porous anodic alumina films. *Science Bulletin*, **2003**, 48, 1090-1092 2
- 5 Microscopy Study of the Growth Process and Structural Features of Closely Packed Silica Nanowires. *Journal of Physical Chemistry B*, **2003**, 107, 13029-13032 3.4 27
- 4 Catalytic Growth of Large-Scale Single-Crystal CdS Nanowires by Physical Evaporation and Their Photoluminescence. *Chemistry of Materials*, **2002**, 14, 1773-1777 9.6 203
- 3 Zn nanobelts: a new quasi one-dimensional metal nanostructure. *Chemical Communications*, **2001**, 2632-2633 65
- 2 Modulation of optical absorption edge in TiO₂/SiO₂ mesoporous composites. *Science Bulletin*, **1998**, 43, 2066-2070
- 1 Copper-assisted growth of high-purity carbon nanofiber networks with controllably tunable wettabilities. *Journal of Materials Chemistry A*, 13 1