

# Tie 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.

103  
papers

4,763  
citations

40  
h-index

66  
g-index

113  
ext. papers

5,541  
ext. citations

11.4  
avg, IF

5.88  
L-index

#	Paper	IF	Citations
103	Glass nanopipette sensing of single entities. <i>Journal of Electroanalytical Chemistry</i> , <b>2022</b> , 909, 116106	4.1	3
102	Confined Assembly of Colloidal Nanorod Superstructures by Locally Controlling Free-volume Entropy in Non-equilibrium Fluids.. <i>Advanced Materials</i> , <b>2022</b> , e2202119	24	1
101	Combining printing and nanoparticle assembly: Methodology and application of nanoparticle patterning. <i>Innovation(China)</i> , <b>2022</b> , 3, 100253	17.8	3
100	Spatial Confinement Tunes Cleavage and Re-Formation of C=N Bonds in Fluorescent Molecules. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 14486-14490	3.6	1
99	Spatial Confinement Tunes Cleavage and Re-Formation of C=N Bonds in Fluorescent Molecules. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 14365-14369	16.4	6
98	Point-of-Care Test Paper for Exhaled Breath Aldehyde Analysis via Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 9158-9165	7.8	7
97	Nanoassembled Interface for Dynamics Tailoring. <i>Accounts of Chemical Research</i> , <b>2021</b> , 54, 35-45	24.3	4
96	Self-assembly of semiconductor nanoparticles toward emergent behaviors on fluorescence. <i>Nano Research</i> , <b>2021</b> , 14, 1233-1243	10	6
95	Electrochemical Sensors Applied for In vitro Diagnosis. <i>Chemical Research in Chinese Universities</i> , <b>2021</b> , 37, 803-822	2.2	3
94	Effect of structure: A new insight into nanoparticle assemblies from inanimate to animate. <i>Science Advances</i> , <b>2020</b> , 6, eaba1321	14.3	32
93	Universal Strategy for Improving the Sensitivity of Detecting Volatile Organic Compounds by Patterned Arrays. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 16087-16091	3.6	3
92	Universal Strategy for Improving the Sensitivity of Detecting Volatile Organic Compounds by Patterned Arrays. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 15953-15957	16.4	8
91	Selective Capture and in Situ Controllable Detection of d-Glucose in Cerebral Systems. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 4445-4450	7.8	2
90	Mechanical penetration of $\beta$ -lactam-resistant Gram-negative bacteria by programmable nanowires. <i>Science Advances</i> , <b>2020</b> , 6,	14.3	11
89	Aptamer-functionalized nanomaterials for biological applications. <i>Materials Chemistry Frontiers</i> , <b>2020</b> , 4, 1569-1585	7.8	22
88	A Metal-Organic Framework Nanosheet-Assembled Frame Film with High Permeability and Stability. <i>Advanced Science</i> , <b>2020</b> , 7, 1903180	13.6	10
87	Nanomaterial-based gas sensors used for breath diagnosis. <i>Journal of Materials Chemistry B</i> , <b>2020</b> , 8, 3231-3248	7.3	61

86	General Strategy to Optimize Gas Evolution Reaction via Assembled Striped-Pattern Superlattices. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 1857-1863	16.4	42
85	Colorimetric Assay Using Mesoporous Fe-Doped Graphitic Carbon Nitride as a Peroxidase Mimetic for the Determination of Hydrogen Peroxide and Glucose.. <i>ACS Applied Bio Materials</i> , <b>2020</b> , 3, 59-67	4.1	9
84	Understanding the Role of Metal-Organic Frameworks in Surface-Enhanced Raman Scattering Application. <i>Small</i> , <b>2020</b> , 16, e2004802	11	32
83	Mechanical and Tribological Performances Enhanced by Self-Assembled Structures. <i>Advanced Materials</i> , <b>2020</b> , 32, e2002004	24	4
82	Deformable Metal-Organic Framework Nanosheets for Heterogeneous Catalytic Reactions. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 9408-9414	16.4	22
81	Detection of Exhaled Volatile Organic Compounds Improved by Hollow Nanocages of Layered Double Hydroxide on Ag Nanowires. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 16675-16679	3.6	15
80	Thermodynamically Controlled Self-Assembly of Hierarchically Staggered Architecture as an Osteoinductive Alternative to Bone Autografts. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1806445	15.6	25
79	Ruthenium@N-doped graphite carbon derived from carbon foam for efficient hydrogen evolution reaction. <i>Chemical Communications</i> , <b>2019</b> , 55, 965-968	5.8	39
78	Coordination mode engineering in stacked-nanosheet metal-organic frameworks to enhance catalytic reactivity and structural robustness. <i>Nature Communications</i> , <b>2019</b> , 10, 2779	17.4	52
77	Survey on the Mechanical Properties of Lamellar Ag-MXA Supercluster Architectures. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 10662-10667	4.8	
76	From Atoms to Lives: The Evolution of Nanoparticle Assemblies. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1807658	15.6	32
75	Signal-Off Electrogenerated Chemiluminescence Biosensing Platform Based on the Quenching Effect between Ferrocene and Ru(bpy)-Functionalized Metal-Organic Frameworks for the Detection of Methylated RNA. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 11840-11847	7.8	24
74	Movable Hollow Nanoparticles as Reactive Oxygen Scavengers. <i>CheM</i> , <b>2019</b> , 5, 2378-2387	16.2	45
73	Detection of Exhaled Volatile Organic Compounds Improved by Hollow Nanocages of Layered Double Hydroxide on Ag Nanowires. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 16523-16527	16.4	32
72	Architectural Design of Self-Assembled Hollow Superstructures. <i>Advanced Materials</i> , <b>2019</b> , 31, e1801441	14	25
71	A Metastable Crystalline Phase in Two-Dimensional Metallic Oxide Nanoplates. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 2077-2081	3.6	3
70	A Metastable Crystalline Phase in Two-Dimensional Metallic Oxide Nanoplates. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 2055-2059	16.4	10
69	Superficial-Layer-Enhanced Raman Scattering (SLERS) for Depth Detection of Noncontact Molecules. <i>Advanced Materials</i> , <b>2019</b> , 31, e1804275	24	22

68	Effective Extraction of Domoic Acid from Seafood Based on Postsynthetic-Modified Magnetic Zeolite Imidazolate Framework-8 Particles. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 2418-2424	7.8	38
67	Application of ordered nanoparticle self-assemblies in surface-enhanced spectroscopy. <i>Materials Chemistry Frontiers</i> , <b>2018</b> , 2, 835-860	7.8	25
66	Bacterial capture efficiency in fluid bloodstream improved by bendable nanowires. <i>Nature Communications</i> , <b>2018</b> , 9, 444	17.4	37
65	A stable lead halide perovskite nanocrystals protected by PMMA. <i>Science China Materials</i> , <b>2018</b> , 61, 363-370	7.0	41
64	Sensitive Detection of a Nerve-Agent Simulant through Retightening Internanofiber Binding for Fluorescence Enhancement. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 1498-1501	7.8	18
63	Self-Assembled Ag-MXA Superclusters with Structure-Dependent Mechanical Properties. <i>Advanced Materials</i> , <b>2018</b> , 30, 1706327	24	19
62	A guard to reduce the accidental oxidation of PbTe nanocrystals. <i>Nanoscale</i> , <b>2018</b> , 10, 12284-12290	7.7	2
61	Selective Surface Enhanced Raman Scattering for Quantitative Detection of Lung Cancer Biomarkers in Superparticle@MOF Structure. <i>Advanced Materials</i> , <b>2018</b> , 30, 1702275	24	186
60	Silver nanoparticles as matrix for MALDI FTICR MS profiling and imaging of diverse lipids in brain. <i>Talanta</i> , <b>2018</b> , 179, 624-631	6.2	40
59	Biocompatibility of Magnetic Resonance Imaging Nanoprobes Improved by Transformable Gadolinium Oxide Nanocoils. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 14211-14216	16.4	26
58	Ultra-stable 2D layered methylammonium cadmium trihalide perovskite photoelectrodes. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 11552-11560	7.1	13
57	A new view for nanoparticle assemblies: from crystalline to binary cooperative complementarity. <i>Chemical Society Reviews</i> , <b>2017</b> , 46, 1483-1509	58.5	62
56	Ultrasensitive Surface-Enhanced Raman Scattering Sensor of Gaseous Aldehydes as Biomarkers of Lung Cancer on Dendritic Ag Nanocrystals. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 1416-1420	7.8	63
55	Internanofiber Spacing Adjustment in the Bundled Nanofibers for Sensitive Fluorescence Detection of Volatile Organic Compounds. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 3814-3818	7.8	34
54	Ordered Superparticles with an Enhanced Photoelectric Effect by Sub-Nanometer Interparticle Distance. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1701982	15.6	24
53	From lamellar to hierarchical: overcoming the diffusion barriers of sulfide-intercalated layered double hydroxides for highly efficient water treatment. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 22506-22511	13.21	21
52	Understanding the Selective Detection of Fe Based on Graphene Quantum Dots as Fluorescent Probes: The K of a Metal Hydroxide-Assisted Mechanism. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 12054-12058	7.8	97
51	Large-Scale, Long-Range-Ordered Patterning of Nanocrystals via Capillary-Bridge Manipulation. <i>Advanced Materials</i> , <b>2017</b> , 29, 1703143	24	47

50	Seamless Signal Transduction from Three-Dimensional Cultured Cells to a Superoxide Anions Biosensor via In Situ Self-Assembly of Dipeptide Hydrogel. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 12843-12849	7.8	28
49	Surface engineering of nanoparticles for triggering collective properties of supercrystals. <i>National Science Review</i> , <b>2017</b> , 4, 672-677	10.8	10
48	Shape-Controlled Synthesis of High-Quality Cu S Nanocrystals for Efficient Light-Induced Water Evaporation. <i>Small</i> , <b>2016</b> , 12, 5320-5328	11	108
47	Hierarchically Staggered Nanostructure of Mineralized Collagen as a Bone-Grafting Scaffold. <i>Advanced Materials</i> , <b>2016</b> , 28, 8740-8748	24	91
46	Dynamically Regulated Ag Nanowire Arrays for Detecting Molecular Information of Substrate-Induced Stretched Cell Growth. <i>Advanced Materials</i> , <b>2016</b> , 28, 9589-9595	24	31
45	Fluorescence Detection of a Broad Class of Explosives with One Zinc(II)-Coordination Nanofiber. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 10826-10830	7.8	14
44	Advancements of molecularly imprinted polymers in the food safety field. <i>Analyst, The</i> , <b>2016</b> , 141, 3540-53	57	
43	Detection of volatile organic compounds (VOCs) from exhaled breath as noninvasive methods for cancer diagnosis. <i>Analytical and Bioanalytical Chemistry</i> , <b>2016</b> , 408, 2759-80	4.4	90
42	Hierarchical Structures of Bone and Bioinspired Bone Tissue Engineering. <i>Small</i> , <b>2016</b> , 12, 4611-32	11	172
41	Morphology-controlled synthesis of WO <sub>2</sub> .72 nanostructures and their photocatalytic properties. <i>RSC Advances</i> , <b>2016</b> , 6, 48537-48542	3.7	30
40	Direct observation of nanoparticle multiple-ring pattern formation during droplet evaporation with dark-field microscopy. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 13018-25	3.6	16
39	Lower work function of thermoelectric material by ordered arrays. <i>Science China Chemistry</i> , <b>2016</b> , 59, 1264-1269	7.9	3
38	Pressure Processing of Nanocube Assemblies Toward Harvesting of a Metastable PbS Phase. <i>Advanced Materials</i> , <b>2015</b> , 27, 4544-9	24	53
37	Catalase Nanocapsules Protected by Polymer Shells for Scavenging Free Radicals of Tobacco Smoke. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 5159-5165	15.6	15
36	Interparticle Forces Underlying Nanoparticle Self-Assemblies. <i>Small</i> , <b>2015</b> , 11, 5984-6008	11	85
35	Dual-peak electrogenerated chemiluminescence of carbon dots for iron ions detection. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 5620-3	7.8	75
34	Colloidal superparticles from nanoparticle assembly. <i>Chemical Society Reviews</i> , <b>2013</b> , 42, 2804-23	58.5	204
33	Macroscale lateral alignment of semiconductor nanorods into freestanding thin films. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 6022-5	16.4	26

32	Self-assembled colloidal superparticles from nanorods. <i>Science</i> , <b>2012</b> , 338, 358-63	33.3	292
31	Shape-controlled synthesis of colloidal superparticles from nanocubes. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 18225-8	16.4	109
30	Binary assembly of colloidal semiconductor nanorods with spherical metal nanoparticles. <i>Small</i> , <b>2012</b> , 8, 843-6	11	25
29	Nanoparticle-based artificial RNA silencing machinery for antiviral therapy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 12387-92	11.5	52
28	Deviatoric stress driven formation of large single-crystal PbS nanosheet from nanoparticles and in situ monitoring of oriented attachment. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 14484-7	16.4	144
27	Surface-functionalization-dependent optical properties of II-VI semiconductor nanocrystals. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 17504-12	16.4	105
26	Gas-bubble effects on the formation of colloidal iron oxide nanocrystals. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 12664-74	16.4	75
25	Microsphere Bouquets of Bismuth Telluride Nanoplates: Room-Temperature Synthesis and Thermoelectric Properties. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 1796-1799	3.8	34
24	Excitation-Intensity-Dependent Color-Tunable Dual Emissions from Manganese-Doped CdS/ZnS Core/Shell Nanocrystals. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 10330-10333	3.6	16
23	Excitation-intensity-dependent color-tunable dual emissions from manganese-doped CdS/ZnS core/shell nanocrystals. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 10132-5	16.4	74
22	Surface-enhanced Raman scattering from surfactant-free 3D gold nanowire networks substrates. <i>Talanta</i> , <b>2008</b> , 75, 455-60	6.2	20
21	The fragmentation of gold nanoparticles induced by small biomolecules. <i>Chemical Communications</i> , <b>2008</b> , 4625-7	5.8	19
20	A renewable SERS substrate prepared by cyclic depositing and stripping of silver shells on gold nanoparticle microtubes. <i>Small</i> , <b>2008</b> , 4, 781-6	11	45
19	Multilayer structured carbon nanotubes/poly-L-lysine/laccase composite cathode for glucose/O <sub>2</sub> biofuel cell. <i>Electrochemistry Communications</i> , <b>2008</b> , 10, 1012-1015	5.1	66
18	A biofuel cell with enhanced performance by multilayer biocatalyst immobilized on highly ordered macroporous electrode. <i>Biosensors and Bioelectronics</i> , <b>2008</b> , 24, 329-33	11.8	63
17	Construction of metal nanoparticle/multiwalled carbon nanotube hybrid nanostructures providing the most accessible reaction sites. <i>Journal of Materials Chemistry</i> , <b>2007</b> , 17, 4189		9
16	Surface-Enhanced Raman Scattering of 4-Aminothiophenol Self-Assembled Monolayers in Sandwich Structure with Nanoparticle Shape Dependence: Off-Surface Plasmon Resonance Condition. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 6962-6969	3.8	162
15	Fluorescent Conjugated Polymer-Stabilized Gold Nanoparticles for Sensitive and Selective Detection of Cysteine. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 13414-13417	3.8	98

14	Thermal annealing of Au nanorod self-assembled nanostructured materials: morphology and optical properties. <i>Journal of Colloid and Interface Science</i> , <b>2007</b> , 316, 947-53	9.3	14
13	Nanotubes of mixed-valence, transition metal compounds synthesized by solution phase approach. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2007</b> , 7, 2516-20	1.3	
12	A general route to transform normal hydrophilic cloths into superhydrophobic surfaces. <i>Chemical Communications</i> , <b>2007</b> , 1849-51	5.8	109
11	A general route to prepare one- and three-dimensional carbon nanotube/metal nanoparticle composite nanostructures. <i>Langmuir</i> , <b>2007</b> , 23, 6352-7	4	50
10	Rapid synthesis of cubic Pt nanoparticles and their use for the preparation of Pt nanoagglomerates. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2006</b> , 6, 2056-61	1.3	22
9	Surfactantless synthesis of multiple shapes of gold nanostructures and their shape-dependent SERS spectroscopy. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 16930-6	3.4	99
8	Templated assembly of gold nanoparticles into microscale tubules and their application in surface-enhanced Raman scattering. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 14179-85	3.4	32
7	In situ synthesis and characterization of multiwalled carbon nanotube/Au nanoparticle composite materials. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 853-7	3.4	171
6	Noncovalent functionalization of multiwalled carbon nanotubes: application in hybrid nanostructures. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 6631-6	3.4	54
5	Parallel alignment of carbon nanotubes induced with inorganic molecules. <i>Langmuir</i> , <b>2005</b> , 21, 12068-714		5
4	Well-ordered end-to-end linkage of gold nanorods. <i>Nanotechnology</i> , <b>2005</b> , 16, 2164-9	3.4	77
3	Fabrication, characterization, and application in SERS of self-assembled polyelectrolyte-gold nanorod multilayered films. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 19385-9	3.4	134
2	Direct electrochemistry of microperoxidase 11 using carbon nanotube modified electrodes. <i>Journal of Electroanalytical Chemistry</i> , <b>2005</b> , 578, 121-127	4.1	65
1	Hollow Metal Organic Framework Improves the Sensitivity and Anti-Interference of the Detection of Exhaled Volatile Organic Compounds. <i>Advanced Functional Materials</i> , 2202805	15.6	3