## Tie Wang

## List of Publications by Year in descending order

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TIE MANC

#	Article	IF	CITATIONS
1	Self-Assembled Colloidal Superparticles from Nanorods. Science, 2012, 338, 358-363.	6.0	332
2	Hierarchical Structures of Bone and Bioinspired Bone Tissue Engineering. Small, 2016, 12, 4611-4632.	5.2	307
3	Selective Surface Enhanced Raman Scattering for Quantitative Detection of Lung Cancer Biomarkers in Superparticle@MOF Structure. Advanced Materials, 2018, 30, 1702275.	11.1	301
4	Colloidal superparticles from nanoparticle assembly. Chemical Society Reviews, 2013, 42, 2804-2823.	18.7	230
5	In Situ Synthesis and Characterization of Multiwalled Carbon Nanotube/Au Nanoparticle Composite Materials. Journal of Physical Chemistry B, 2006, 110, 853-857.	1.2	184
6	Surface-Enhanced Raman Scattering of 4-Aminothiophenol Self-Assembled Monolayers in Sandwich Structure with Nanoparticle Shape Dependence:  Off-Surface Plasmon Resonance Condition. Journal of Physical Chemistry C, 2007, 111, 6962-6969.	1.5	172
7	Deviatoric Stress Driven Formation of Large Single-Crystal PbS Nanosheet from Nanoparticles and in Situ Monitoring of Oriented Attachment. Journal of the American Chemical Society, 2011, 133, 14484-14487.	6.6	168
8	Shape-Controlled Synthesis of High-Quality Cu <sub>7</sub> S <sub>4</sub> Nanocrystals for Efficient Light-Induced Water Evaporation. Small, 2016, 12, 5320-5328.	5.2	145
9	Understanding the Selective Detection of Fe <sup>3+</sup> Based on Graphene Quantum Dots as Fluorescent Probes: The <i>K</i> <sub>sp</sub> of a Metal Hydroxide-Assisted Mechanism. Analytical Chemistry, 2017, 89, 12054-12058.	3.2	143
10	Nanomaterial-based gas sensors used for breath diagnosis. Journal of Materials Chemistry B, 2020, 8, 3231-3248.	2.9	142
11	Fabrication, Characterization, and Application in SERS of Self-Assembled Polyelectrolyteâ^'Gold Nanorod Multilayered Films. Journal of Physical Chemistry B, 2005, 109, 19385-19389.	1.2	139
12	Detection of volatile organic compounds (VOCs) from exhaled breath as noninvasive methods for cancer diagnosis. Analytical and Bioanalytical Chemistry, 2016, 408, 2759-2780.	1.9	134
13	Hierarchically Staggered Nanostructure of Mineralized Collagen as a Boneâ€Grafting Scaffold. Advanced Materials, 2016, 28, 8740-8748.	11.1	129
14	Surface-Functionalization-Dependent Optical Properties of II–VI Semiconductor Nanocrystals. Journal of the American Chemical Society, 2011, 133, 17504-17512.	6.6	121
15	Shape-Controlled Synthesis of Colloidal Superparticles from Nanocubes. Journal of the American Chemical Society, 2012, 134, 18225-18228.	6.6	121
16	Interparticle Forces Underlying Nanoparticle Selfâ€Assemblies. Small, 2015, 11, 5984-6008.	5.2	119
17	A general route to transform normal hydrophilic cloths into superhydrophobic surfaces. Chemical Communications, 2007, , 1849.	2.2	114
18	Surfactantless Synthesis of Multiple Shapes of Gold Nanostructures and Their Shape-Dependent SERS Spectroscopy. Journal of Physical Chemistry B, 2006, 110, 16930-16936.	1.2	106

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19	Fluorescent Conjugated Polymer-Stabilized Gold Nanoparticles for Sensitive and Selective Detection of Cysteine. Journal of Physical Chemistry C, 2007, 111, 13414-13417.	1.5	102
20	Ultrasensitive Surface-Enhanced Raman Scattering Sensor of Gaseous Aldehydes as Biomarkers of Lung Cancer on Dendritic Ag Nanocrystals. Analytical Chemistry, 2017, 89, 1416-1420.	3.2	95
21	General Strategy to Optimize Gas Evolution Reaction via Assembled Striped-Pattern Superlattices. Journal of the American Chemical Society, 2020, 142, 1857-1863.	6.6	93
22	Dual-Peak Electrogenerated Chemiluminescence of Carbon Dots for Iron Ions Detection. Analytical Chemistry, 2014, 86, 5620-5623.	3.2	90
23	Coordination mode engineering in stacked-nanosheet metal–organic frameworks to enhance catalytic reactivity and structural robustness. Nature Communications, 2019, 10, 2779.	5.8	89
24	Well-ordered end-to-end linkage of gold nanorods. Nanotechnology, 2005, 16, 2164-2169.	1.3	85
25	Excitationâ€Intensityâ€Dependent Colorâ€Tunable Dual Emissions from Manganeseâ€Doped CdS/ZnS Core/Shell Nanocrystals. Angewandte Chemie - International Edition, 2010, 49, 10132-10135.	7.2	82
26	Gas-Bubble Effects on the Formation of Colloidal Iron Oxide Nanocrystals. Journal of the American Chemical Society, 2011, 133, 12664-12674.	6.6	79
27	A new view for nanoparticle assemblies: from crystalline to binary cooperative complementarity. Chemical Society Reviews, 2017, 46, 1483-1509.	18.7	77
28	Direct electrochemistry of microperoxidase 11 using carbon nanotube modified electrodes. Journal of Electroanalytical Chemistry, 2005, 578, 121-127.	1.9	74
29	Understanding the Role of Metal–Organic Frameworks in Surfaceâ€Enhanced Raman Scattering Application. Small, 2020, 16, e2004802.	5.2	73
30	Multilayer structured carbon nanotubes/poly-l-lysine/laccase composite cathode for glucose/O2 biofuel cell. Electrochemistry Communications, 2008, 10, 1012-1015.	2.3	72
31	Detection of Exhaled Volatile Organic Compounds Improved by Hollow Nanocages of Layered Double Hydroxide on Ag Nanowires. Angewandte Chemie - International Edition, 2019, 58, 16523-16527.	7.2	72
32	Advancements of molecularly imprinted polymers in the food safety field. Analyst, The, 2016, 141, 3540-3553.	1.7	70
33	Movable Hollow Nanoparticles as Reactive Oxygen Scavengers. CheM, 2019, 5, 2378-2387.	5.8	68
34	A biofuel cell with enhanced performance by multilayer biocatalyst immobilized on highly ordered macroporous electrode. Biosensors and Bioelectronics, 2008, 24, 329-333.	5.3	66
35	Effect of structure: A new insight into nanoparticle assemblies from inanimate to animate. Science Advances, 2020, 6, eaba1321.	4.7	65
36	Nanoparticle-based artificial RNA silencing machinery for antiviral therapy. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 12387-12392.	3.3	63

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37	Pressure Processing of Nanocube Assemblies Toward Harvesting of a Metastable PbS Phase. Advanced Materials, 2015, 27, 4544-4549.	11.1	61
38	Large‣cale, Longâ€Rangeâ€Ordered Patterning of Nanocrystals via Capillaryâ€Bridge Manipulation. Advanced Materials, 2017, 29, 1703143.	11.1	59
39	Noncovalent Functionalization of Multiwalled Carbon Nanotubes:Â Application in Hybrid Nanostructures. Journal of Physical Chemistry B, 2006, 110, 6631-6636.	1.2	57
40	Signal-Off Electrogenerated Chemiluminescence Biosensing Platform Based on the Quenching Effect between Ferrocene and Ru(bpy) <sub>3</sub> <sup>2+</sup> -Functionalized Metal–Organic Frameworks for the Detection of Methylated RNA. Analytical Chemistry, 2019, 91, 11840-11847.	3.2	57
41	Ruthenium@N-doped graphite carbon derived from carbon foam for efficient hydrogen evolution reaction. Chemical Communications, 2019, 55, 965-968.	2.2	56
42	A stable lead halide perovskite nanocrystals protected by PMMA. Science China Materials, 2018, 61, 363-370.	3.5	55
43	A General Route to Prepare One- and Three-Dimensional Carbon Nanotube/Metal Nanoparticle Composite Nanostructures. Langmuir, 2007, 23, 6352-6357.	1.6	53
44	Bacterial capture efficiency in fluid bloodstream improved by bendable nanowires. Nature Communications, 2018, 9, 444.	5.8	53
45	Effective Extraction of Domoic Acid from Seafood Based on Postsynthetic-Modified Magnetic Zeolite Imidazolate Framework-8 Particles. Analytical Chemistry, 2019, 91, 2418-2424.	3.2	53
46	Silver nanoparticles as matrix for MALDI FTICR MS profiling and imaging of diverse lipids in brain. Talanta, 2018, 179, 624-631.	2.9	51
47	Detection of Exhaled Volatile Organic Compounds Improved by Hollow Nanocages of Layered Double Hydroxide on Ag Nanowires. Angewandte Chemie, 2019, 131, 16675-16679.	1.6	51
48	Deformable Metal–Organic Framework Nanosheets for Heterogeneous Catalytic Reactions. Journal of the American Chemical Society, 2020, 142, 9408-9414.	6.6	50
49	A Renewable SERS Substrate Prepared by Cyclic Depositing and Stripping of Silver Shells on Gold Nanoparticle Microtubes. Small, 2008, 4, 781-786.	5.2	48
50	Internanofiber Spacing Adjustment in the Bundled Nanofibers for Sensitive Fluorescence Detection of Volatile Organic Compounds. Analytical Chemistry, 2017, 89, 3814-3818.	3.2	47
51	From Atoms to Lives: The Evolution of Nanoparticle Assemblies. Advanced Functional Materials, 2019, 29, 1807658.	7.8	44
52	Seamless Signal Transduction from Three-Dimensional Cultured Cells to a Superoxide Anions Biosensor via In Situ Self-Assembly of Dipeptide Hydrogel. Analytical Chemistry, 2017, 89, 12843-12849.	3.2	42
53	Application of ordered nanoparticle self-assemblies in surface-enhanced spectroscopy. Materials Chemistry Frontiers, 2018, 2, 835-860.	3.2	42
54	Biocompatibility of Magnetic Resonance Imaging Nanoprobes Improved by Transformable Gadolinium Oxide Nanocoils. Journal of the American Chemical Society, 2018, 140, 14211-14216.	6.6	41

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55	Dynamically Regulated Ag Nanowire Arrays for Detecting Molecular Information of Substrateâ€Induced Stretched Cell Growth. Advanced Materials, 2016, 28, 9589-9595.	11.1	38
56	Architectural Design of Selfâ€Assembled Hollow Superstructures. Advanced Materials, 2019, 31, e1801441.	11.1	37
57	Microsphere Bouquets of Bismuth Telluride Nanoplates: Room-Temperature Synthesis and Thermoelectric Properties. Journal of Physical Chemistry C, 2010, 114, 1796-1799.	1.5	36
58	Thermodynamically Controlled Selfâ€Assembly of Hierarchically Staggered Architecture as an Osteoinductive Alternative to Bone Autografts. Advanced Functional Materials, 2019, 29, 1806445.	7.8	36
59	Morphology-controlled synthesis of WO2.72 nanostructures and their photocatalytic properties. RSC Advances, 2016, 6, 48537-48542.	1.7	34
60	Templated Assembly of Gold Nanoparticles into Microscale Tubules and Their Application in Surface-Enhanced Raman Scattering. Journal of Physical Chemistry B, 2006, 110, 14179-14185.	1.2	33
61	Ordered Superparticles with an Enhanced Photoelectric Effect by Subâ€Nanometer Interparticle Distance. Advanced Functional Materials, 2017, 27, 1701982.	7.8	32
62	Superficial‣ayerâ€Enhanced Raman Scattering (SLERS) for Depth Detection of Noncontact Molecules. Advanced Materials, 2019, 31, e1804275.	11.1	31
63	Aptamer-functionalized nanomaterials for biological applications. Materials Chemistry Frontiers, 2020, 4, 1569-1585.	3.2	31
64	Macroscale Lateral Alignment of Semiconductor Nanorods into Freestanding Thin Films. Journal of the American Chemical Society, 2013, 135, 6022-6025.	6.6	30
65	Binary Assembly of Colloidal Semiconductor Nanorods with Spherical Metal Nanoparticles. Small, 2012, 8, 843-846.	5.2	26
66	From lamellar to hierarchical: overcoming the diffusion barriers of sulfide-intercalated layered double hydroxides for highly efficient water treatment. Journal of Materials Chemistry A, 2017, 5, 22506-22511.	5.2	26
67	Colorimetric Assay Using Mesoporous Fe-Doped Graphitic Carbon Nitride as a Peroxidase Mimetic for the Determination of Hydrogen Peroxide and Glucose. ACS Applied Bio Materials, 2020, 3, 59-67.	2.3	25
68	Universal Strategy for Improving the Sensitivity of Detecting Volatile Organic Compounds by Patterned Arrays. Angewandte Chemie - International Edition, 2020, 59, 15953-15957.	7.2	24
69	A Metal–Organic Framework Nanosheetâ€Assembled Frame Film with High Permeability and Stability. Advanced Science, 2020, 7, 1903180.	5.6	24
70	Rapid Synthesis of Cubic Pt Nanoparticles and Their Use for the Preparation of Pt Nanoagglomerates. Journal of Nanoscience and Nanotechnology, 2006, 6, 2056-2061.	0.9	23
71	Surface-enhanced Raman scattering from surfactant-free 3D gold nanowire networks substrates. Talanta, 2008, 75, 455-460.	2.9	23
72	Sensitive Detection of a Nerve-Agent Simulant through Retightening Internanofiber Binding for Fluorescence Enhancement. Analytical Chemistry, 2018, 90, 1498-1501.	3.2	23

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73	Mechanical penetration of β-lactam–resistant Gram-negative bacteria by programmable nanowires. Science Advances, 2020, 6, .	4.7	23
74	Hollow Metal Organic Framework Improves the Sensitivity and Antiâ€Interference of the Detection of Exhaled Volatile Organic Compounds. Advanced Functional Materials, 2022, 32, .	7.8	23
75	Point-of-Care Test Paper for Exhaled Breath Aldehyde Analysis via Mass Spectrometry. Analytical Chemistry, 2021, 93, 9158-9165.	3.2	22
76	The fragmentation of gold nanoparticles induced by small biomolecules. Chemical Communications, 2008, , 4625.	2.2	21
77	Catalase Nanocapsules Protected by Polymer Shells for Scavenging Free Radicals of Tobacco Smoke. Advanced Functional Materials, 2015, 25, 5159-5165.	7.8	21
78	Selfâ€Assembled Agâ€MXA Superclusters with Structureâ€Dependent Mechanical Properties. Advanced Materials, 2018, 30, 1706327.	11.1	21
79	Spatial Confinement Tunes Cleavage and Reâ€Formation of C=N Bonds in Fluorescent Molecules. Angewandte Chemie - International Edition, 2021, 60, 14365-14369.	7.2	21
80	Ultra-stable 2D layered methylammonium cadmium trihalide perovskite photoelectrodes. Journal of Materials Chemistry C, 2018, 6, 11552-11560.	2.7	20
81	Fluorescence Detection of a Broad Class of Explosives with One Zinc(II)-Coordination Nanofiber. Analytical Chemistry, 2016, 88, 10826-10830.	3.2	19
82	A Metastable Crystalline Phase in Twoâ€Dimensional Metallic Oxide Nanoplates. Angewandte Chemie - International Edition, 2019, 58, 2055-2059.	7.2	19
83	Direct observation of nanoparticle multiple-ring pattern formation during droplet evaporation with dark-field microscopy. Physical Chemistry Chemical Physics, 2016, 18, 13018-13025.	1.3	18
84	Thermal annealing of Au nanorod self-assembled nanostructured materials: Morphology and optical properties. Journal of Colloid and Interface Science, 2007, 316, 947-953.	5.0	16
85	Surface engineering of nanoparticles for triggering collective properties of supercrystals. National Science Review, 2017, 4, 672-677.	4.6	14
86	Nanoassembled Interface for Dynamics Tailoring. Accounts of Chemical Research, 2021, 54, 35-45.	7.6	13
87	Mechanical and Tribological Performances Enhanced by Selfâ€Assembled Structures. Advanced Materials, 2020, 32, e2002004.	11.1	11
88	Self-assembly of semiconductor nanoparticles toward emergent behaviors on fluorescence. Nano Research, 2021, 14, 1233-1243.	5.8	11
89	Electrochemical Sensors Applied for In vitro Diagnosis. Chemical Research in Chinese Universities, 2021, 37, 803-822.	1.3	11
90	A Separationâ€Sensing Platform Performing Accurate Diagnosis of Jaundice in Complex Biological Tear Fluids. Angewandte Chemie - International Edition, 2022, 61, .	7.2	10

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91	Construction of metal nanoparticle/multiwalled carbon nanotube hybrid nanostructures providing the most accessible reaction sites. Journal of Materials Chemistry, 2007, 17, 4189.	6.7	9
92	Combining printing and nanoparticle assembly: Methodology and application of nanoparticle patterning. Innovation(China), 2022, 3, 100253.	5.2	8
93	A Metastable Crystalline Phase in Twoâ€Dimensional Metallic Oxide Nanoplates. Angewandte Chemie, 2019, 131, 2077-2081.	1.6	7
94	Glass Nanopipette Sensing of Single Entities. Journal of Electroanalytical Chemistry, 2022, 909, 116106.	1.9	7
95	Selective Capture and in Situ Controllable Detection of <scp>d</scp> -Glucose in Cerebral Systems. Analytical Chemistry, 2020, 92, 4445-4450.	3.2	6
96	Spatial Confinement Tunes Cleavage and Reâ€Formation of C=N Bonds in Fluorescent Molecules. Angewandte Chemie, 2021, 133, 14486-14490.	1.6	6
97	Parallel Alignment of Carbon Nanotubes Induced with Inorganic Molecules. Langmuir, 2005, 21, 12068-12071.	1.6	5
98	Real-time <i>in vivo</i> imaging reveals specific nanoparticle target binding in a syngeneic glioma mouse model. Nanoscale, 2022, 14, 5678-5688.	2.8	5
99	Confined Assembly of Colloidal Nanorod Superstructures by Locally Controlling Freeâ€Volume Entropy in Nonequilibrium Fluids. Advanced Materials, 2022, 34, e2202119.	11.1	5
100	Lower work function of thermoelectric material by ordered arrays. Science China Chemistry, 2016, 59, 1264-1269.	4.2	4
101	Universal Strategy for Improving the Sensitivity of Detecting Volatile Organic Compounds by Patterned Arrays. Angewandte Chemie, 2020, 132, 16087-16091.	1.6	4
102	A Separation‧ensing Platform Performing Accurate Diagnosis of Jaundice in Complex Biological Tear Fluids. Angewandte Chemie, 2022, 134, .	1.6	4
103	Research Progress in Thermoelectric Materials for Sensor Application. Acta Chimica Sinica, 2017, 75, 1029.	0.5	3
104	A guard to reduce the accidental oxidation of PbTe nanocrystals. Nanoscale, 2018, 10, 12284-12290.	2.8	2
105	Electrowetting of Nanofluids Containing Silver Nanoparticles. , 2008, , .		1
106	Nanotubes of Mixed-Valence, Transition Metal Compounds Synthesized by Solution Phase Approach. Journal of Nanoscience and Nanotechnology, 2007, 7, 2516-2520.	0.9	0
107	Survey on the Mechanical Properties of Lamellar Agâ€MXA Supercluster Architectures. Chemistry - A European Journal, 2019, 25, 10662-10667	1.7	0
108	Composite Materials Based on Metal-Organic Frameworks Designed for Sensors. Current Analytical Chemistry, 2021, 17, .	0.6	0

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109	Nanoparticle-assembled interface for tailoring dynamics of chemical reactions. , 2021, , .		0
110	Binary Cooperative Complementary Membranes: A Perspective. Advanced Materials Interfaces, 2022, 9, .	1.9	0