Yuebing Zheng

List of Publications by Year in Descending Order

147 papers	6,121 citations	42 h-index	74 g-index
178 ext. papers	7,169 ext. citations	10.9 avg, IF	6.22 L-index

#	Paper	IF	Citations
147	Towards Single-Molecule Chiral Sensing and Separation. *Nanostructure Science and Technology*, **2022**, 271-293	0.9	
146	Plasmon-Enhanced Optothermal Manipulation. *Lecture Notes in Nanoscale Science and Technology*, **2022**, 233-259	0.3	
145	Room-temperature Observation of Near-intrinsic Exciton Linewidth in Monolayer WS.. *Advanced Materials*, **2022**, e2108721	24	2
144	Optical manipulation and assembly of micro/nanoscale objects on solid substrates.. *IScience*, **2022**, 25, 104035	6.1	3
143	Room-Temperature Observation of Near-Intrinsic Exciton Linewidth in Monolayer WS 2 (Adv. Mater. 15/2022). *Advanced Materials*, **2022**, 34, 2270115	24	
142	Heat-Mediated Optical Manipulation. *Chemical Reviews*, **2021**,	68.1	11
141	A mixture-density-based tandem optimization network for on-demand inverse design of thin-film high reflectors. *Nanophotonics*, **2021**,	6.3	6
140	Sensitivity-Enhancing Strategies in Optical Biosensing. *Small*, **2021**, 17, e2004988	11	2
139	Tunable Chiral Optics in All-Solid-Phase Reconfigurable Dielectric Nanostructures. *Nano Letters*, **2021**, 21, 973-979	11.5	21
138	Label-Free Ultrasensitive Detection of Abnormal Chiral Metabolites in Diabetes. *ACS Nano*, **2021**, 15, 6448-6456	16.7	6
137	Directional Modulation of Exciton Emission Using Single Dielectric Nanospheres. *Advanced Materials*, **2021**, 33, e2007236	24	5
136	Optothermally Assembled Nanostructures. *Accounts of Materials Research*, **2021**, 2, 352-363	7.5	10
135	Plasmonic Nanotweezers and Nanosensors for Point-of-Care Applications. *Advanced Optical Materials*, **2021**, 9, 2100050	8.1	7
134	Dielectric Nanospheres: Directional Modulation of Exciton Emission Using Single Dielectric Nanospheres (Adv. Mater. 20/2021). *Advanced Materials*, **2021**, 33, 2170153	24	0
133	Enhancing Single-Molecule Fluorescence Spectroscopy with Simple and Robust Hybrid Nanoapertures.. *ACS Photonics*, **2021**, 8, 1673-1682	6.3	2
132	Opto-refrigerative tweezers. *Science Advances*, **2021**, 7,	14.3	7
131	Plasmonic Nanotweezers and Nanosensors for Point-of-Care Applications (Advanced Optical Materials 13/2021). *Advanced Optical Materials*, **2021**, 9, 2170051	8.1	

130	Atomistic modeling and rational design of optothermal tweezers for targeted applications.. *Nano Research*, **2021**, 14, 295-303	10	9
129	Decoding Optical Data with Machine Learning. *Laser and Photonics Reviews*, **2021**, 15, 2000422	8.3	6
128	Broadband Forward Light Scattering by Architectural Design of Core‐Shell Silicon Particles. *Advanced Functional Materials*, **2021**, 31, 2100915	15.6	1
127	Light-Driven Magnetic Encoding for Hybrid Magnetic Micromachines. *Nano Letters*, **2021**, 21, 1628-1635	11.5	10
126	Optical Biosensing: Sensitivity-Enhancing Strategies in Optical Biosensing (Small 4/2021). *Small*, **2021**, 17, 2170016	11	1
125	Directional light emission by electric and magnetic dipoles near a nanosphere: an analytical approach based on the generalized Mie theory. *Optics Letters*, **2021**, 46, 302-305	3	5
124	Liquid Optothermoelectrics: Fundamentals and Applications. *Langmuir*, **2021**, 37, 1315-1336	4	4
123	Controlling the polarization of chiral dipolar emission with a spherical dielectric nanoantenna.. *Journal of Chemical Physics*, **2021**, 155, 224110	3.9	2
122	Biologically inspired flexible photonic films for efficient passive radiative cooling. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 14657-14666	11.5	92
121	Opto-thermoelectric pulling of light-absorbing particles. *Light: Science and Applications*, **2020**, 9, 34	16.7	12
120	Opto-thermoelectric Speckle Tweezers **2020**,		1
119	Reconfigurable Assembly of Chiral Metamaterials on Solid Substrates **2020**,		1
118	Opto-thermoelectric speckle tweezers. *Nanophotonics*, **2020**, 9, 927-933	6.3	7
117	Optical Patterning of Two-Dimensional Materials. *Research*, **2020**, 2020, 6581250	7.8	17
116	Detecting Diabetes-Induced Abnormal Chirality in Urine via Accumulation-Assisted Plasmonic Chiral Sensing **2020**,		1
115	Plasmon-enhanced hierarchical photoelectrodes with mechanical flexibility for hydrogen generation from urea solution and human urine. *Journal of Applied Electrochemistry*, **2020**, 50, 63-69	2.6	1
114	Overcoming Diffusion-Limited Trapping in Nanoaperture Tweezers Using Opto-Thermal-Induced Flow. *Nano Letters*, **2020**, 20, 768-779	11.5	30
113	Optoelectronic Thinning of Transition Metal Dichalcogenides for Device Fabrication **2020**,		1

112	Suppressing material loss in the visible and near-infrared range for functional nanophotonics using bandgap engineering. *Nature Communications*, **2020**, 11, 5055	17.4	17
111	Enhancing Surface Capture and Sensing of Proteins with Low-Power Optothermal Bubbles in a Biphasic Liquid. *Nano Letters*, **2020**, 20, 7020-7027	11.5	14
110	Nanophotonics and optoelectronics based on two-dimensional MoS2 **2020**, 121-137		
109	Deep Convolutional Mixture Density Network for Inverse Design of Layered Photonic Structures. *ACS Photonics*, **2020**, 7, 2703-2712	6.3	20
108	Opto-thermoelectric microswimmers. *Light: Science and Applications*, **2020**, 9, 141	16.7	23
107	Opto-Thermoelectric Tweezers: Principles and Applications. *Frontiers in Physics*, **2020**, 8,	3.9	8
106	Intelligent nanophotonics: merging photonics and artificial intelligence at the nanoscale. *Nanophotonics*, **2019**, 8, 339-366	6.3	138
105	Dark-Exciton-Mediated Fano Resonance from a Single Gold Nanostructure on Monolayer WS at Room Temperature. *Small*, **2019**, 15, e1900982	11	16
104	Organic-Inorganic Hybrid Pillarene-Based Nanomaterial for Label-Free Sensing and Catalysis. *Matter*, **2019**, 1, 848-861	12.7	41
103	Opto-thermophoretic fiber tweezers. *Nanophotonics*, **2019**, 8, 475-485	6.3	22
102	Optical Nanoprinting of Colloidal Particles and Functional Structures. *ACS Nano*, **2019**, 13, 3783-3795	16.7	38
101	All-optical reconfigurable chiral meta-molecules. *Materials Today*, **2019**, 25, 10-20	21.8	40
100	Near-Ultraviolet Dielectric Metasurfaces: from Surface-Enhanced Circular Dichroism Spectroscopy to Polarization-Preserving Mirrors. *Journal of Physical Chemistry C*, **2019**, 123, 11814-11822	3.8	27
99	Thermo-Electro-Mechanics at Individual Particles in Complex Colloidal Systems. *Journal of Physical Chemistry C*, **2019**, 123, 21639-21644	3.8	12
98	Dark Excitons: Dark-Exciton-Mediated Fano Resonance from a Single Gold Nanostructure on Monolayer WS2 at Room Temperature (Small 31/2019). *Small*, **2019**, 15, 1970164	11	
97	Digital Assembly of Colloidal Particles for Nanoscale Manufacturing. *Particle and Particle Systems Characterization*, **2019**, 36, 1900152	3.1	6
96	Digital manufacturing of advanced materials: challenges and perspective. *Materials Today*, **2019**, 28, 49-62	21.8	22
95	Room-Temperature Active Modulation of Valley Dynamics in a Monolayer Semiconductor through Chiral Purcell Effects. *Advanced Materials*, **2019**, 31, e1904132	24	34

94	Nanoradiator-Mediated Deterministic Opto-Thermoelectric Manipulation **2019**,		1
93	Accumulation-Driven Unified Spatiotemporal Synthesis and Structuring of Immiscible Metallic Nanoalloys. *Matter*, **2019**, 1, 1606-1617	12.7	20
92	Optical nanomanipulation on solid substrates via optothermally-gated photon nudging. *Nature Communications*, **2019**, 10, 5672	17.4	17
91	Chiral Metamaterials: Room-Temperature Active Modulation of Valley Dynamics in a Monolayer Semiconductor through Chiral Purcell Effects (Adv. Mater. 49/2019). *Advanced Materials*, **2019**, 31, 1970347	24	1
90	Point-and-Shoot Synthesis of Metallic Ring Arrays and Surface-Enhanced Optical Spectroscopy. *Advanced Optical Materials*, **2018**, 6, 1701213	8.1	17
89	Optically active plasmonic resonance in self-assembled nanostructures. *Materials Chemistry Frontiers*, **2018**, 2, 662-678	7.8	30
88	Tunable Fano Resonance and Plasmon-Exciton Coupling in Single Au Nanotriangles on Monolayer WS at Room Temperature. *Advanced Materials*, **2018**, 30, e1705779	24	56
87	Tunable Resonance Coupling in Single Si Nanoparticle-Monolayer WS Structures. *ACS Applied Materials & Interfaces*, **2018**, 10, 16690-16697	9.5	54
86	Moiré Metamaterials and Metasurfaces: Moiré Metamaterials and Metasurfaces (Advanced Optical Materials 3/2018). *Advanced Optical Materials*, **2018**, 6, 1870011	8.1	
85	Moiré Metamaterials and Metasurfaces. *Advanced Optical Materials*, **2018**, 6, 1701057	8.1	32
84	High-Performance Ultrathin Active Chiral Metamaterials. *ACS Nano*, **2018**, 12, 5030-5041	16.7	62
83	Opto-thermoelectric nanotweezers. *Nature Photonics*, **2018**, 12, 195-201	33.9	127
82	Chiral metamaterials via Moiré stacking. *Nanoscale*, **2018**, 10, 18096-18112	7.7	24
81	Opto-Thermophoretic Manipulation and Construction of Colloidal Superstructures in Photocurable Hydrogels. *ACS Applied Nano Materials*, **2018**, 1, 3998-4004	5.6	26
80	Plasmofluidics for Biosensing and Medical Diagnostics **2018**, 213-247		1
79	Optothermoplasmonic Nanolithography for On-Demand Patterning of 2D Materials. *Advanced Functional Materials*, **2018**, 28, 1803990	15.6	28
78	Design and applications of lattice plasmon resonances. *Nano Research*, **2018**, 11, 4423-4440	10	32
77	Optothermoplasmonic Patterning: Optothermoplasmonic Nanolithography for On-Demand Patterning of 2D Materials (Adv. Funct. Mater. 41/2018). *Advanced Functional Materials*, **2018**, 28, 1870299	15.6	3

76	Nanoradiator-Mediated Deterministic Opto-Thermoelectric Manipulation. *ACS Nano*, **2018**, 12, 10383-10392	16.7	32
75	Opto-Thermophoretic Attraction, Trapping, and Dynamic Manipulation of Lipid Vesicles. *Langmuir*, **2018**, 34, 13252-13262	4	20
74	Opto-Thermophoretic Tweezers and Assembly. *Journal of Micro and Nano-Manufacturing*, **2018**, 6,	1.3	16
73	Optothermal Manipulations of Colloidal Particles and Living Cells. *Accounts of Chemical Research*, **2018**, 51, 1465-1474	24.3	65
72	Optothermophoretic Manipulation of Colloidal Particles in Nonionic Liquids. *Journal of Physical Chemistry C*, **2018**, 122, 24226-24234	3.8	18
71	Fano Resonances: Tunable Fano Resonance and Plasmon□Exciton Coupling in Single Au Nanotriangles on Monolayer WS2 at Room Temperature (Adv. Mater. 22/2018). *Advanced Materials*, **2018**, 30, 1870155	24	
70	Large-Area Au-Nanoparticle-Functionalized Si Nanorod Arrays for Spatially Uniform Surface-Enhanced Raman Spectroscopy. *ACS Nano*, **2017**, 11, 1478-1487	16.7	145
69	Thermophoretic Tweezers for Low-Power and Versatile Manipulation of Biological Cells. *ACS Nano*, **2017**, 11, 3147-3154	16.7	73
68	Moir□Chiral Metamaterials. *Advanced Optical Materials*, **2017**, 5, 1700034	8.1	57
67	Patterning and fluorescence tuning of quantum dots with haptic-interfaced bubble printing. *Journal of Materials Chemistry C*, **2017**, 5, 5693-5699	7.1	20
66	High-Resolution Bubble Printing of Quantum Dots. *ACS Applied Materials & Interfaces*, **2017**, 9, 16725-16732	8.5	42
65	Reconfigurable opto-thermoelectric printing of colloidal particles. *Chemical Communications*, **2017**, 53, 7357-7360	5.8	27
64	Controlling Plasmon-Enhanced Fluorescence via Intersystem Crossing in Photoswitchable Molecules. *Small*, **2017**, 13, 1701763	11	13
63	Opto-thermophoretic assembly of colloidal matter. *Science Advances*, **2017**, 3, e1700458	14.3	79
62	Plasmon-trion and plasmon-exciton resonance energy transfer from a single plasmonic nanoparticle to monolayer MoS. *Nanoscale*, **2017**, 9, 13947-13955	7.7	26
61	Interfacial-entropy-driven thermophoretic tweezers. *Lab on A Chip*, **2017**, 17, 3061-3070	7.2	40
60	Highly Efficient Photoelectrochemical Water Splitting from Hierarchical WO/BiVO Nanoporous Sphere Arrays. *Nano Letters*, **2017**, 17, 8012-8017	11.5	131
59	Radiative Enhancement of Plasmonic Nanopatch Antennas. *Plasmonics*, **2016**, 11, 213-222	2.4	10

58	Molecular Plasmonics: From Molecular-Scale Measurements and Control to Applications. *ACS Symposium Series*, **2016**, 23-52	0.4	2
57	Light-Directed Reversible Assembly of Plasmonic Nanoparticles Using Plasmon-Enhanced Thermophoresis. *ACS Nano*, **2016**, 10, 9659-9668	16.7	106
56	Photoswitchable Rabi Splitting in Hybrid Plasmon-Waveguide Modes. *Nano Letters*, **2016**, 16, 7655-7663	11.5	35
55	Thermodynamic synthesis of solution processable ladder polymers. *Chemical Science*, **2016**, 7, 881-889	9.4	50
54	Bubble-Pen Lithography. *Nano Letters*, **2016**, 16, 701-8	11.5	120
53	Molecular-Fluorescence Enhancement via Blue-Shifted Plasmon-Induced Resonance Energy Transfer. *Journal of Physical Chemistry C*, **2016**, 120, 14820-14827	3.8	32
52	Plasmonic Metasurfaces: Tunable Graphene Metasurfaces with Gradient Features by Self-Assembly-Based Moir Nanosphere Lithography (Advanced Optical Materials 12/2016). *Advanced Optical Materials*, **2016**, 4, 1904-1904	8.1	
51	Substrate-Independent Lattice Plasmon Modes for High-Performance On-Chip Plasmonic Sensors. *Plasmonics*, **2016**, 11, 1427-1435	2.4	3
50	Plasmon-enhanced nanoporous BiVO4 photoanodes for efficient photoelectrochemical water oxidation. *Nanotechnology*, **2016**, 27, 235401	3.4	17
49	Dual-band moir metasurface patches for multifunctional biomedical applications. *Nanoscale*, **2016**, 8, 18461-18468	7.7	24
48	Hydrogen-reduced bismuth oxyiodide nanoflake arrays with plasmonic enhancements for efficient photoelectrochemical water reduction. *Electrochimica Acta*, **2016**, 219, 20-27	6.7	24
47	Tunable Graphene Metasurfaces with Gradient Features by Self-Assembly-Based Moir Nanosphere Lithography. *Advanced Optical Materials*, **2016**, 4, 2035-2043	8.1	19
46	Engineering of parallel plasmonic-photonic interactions for on-chip refractive index sensors. *Nanoscale*, **2015**, 7, 12205-14	7.7	21
45	Multiple plasmonic-photonic couplings in the Au nanobeaker arrays: enhanced robustness and wavelength tunability. *Optics Letters*, **2015**, 40, 2060-3	3	10
44	Tunable multiband metasurfaces by moir anosphere lithography. *Nanoscale*, **2015**, 7, 20391-6	7.7	20
43	Seedless Growth of Palladium Nanocrystals with Tunable Structures: From Tetrahedra to Nanosheets. *Nano Letters*, **2015**, 15, 7519-25	11.5	68
42	Active molecular plasmonics: tuning surface plasmon resonances by exploiting molecular dimensions. *Nanophotonics*, **2015**, 4, 186-197	6.3	25
41	Plasmofluidics: Plasmofluidics: Merging Light and Fluids at the Micro-/Nanoscale (Small 35/2015). *Small*, **2015**, 11, 4422-4422	11	1

40	Regioselective Localization and Tracking of Biomolecules on Single Gold Nanoparticles. *Advanced Science*, **2015**, 2, 1500232	13.6	13
39	Multiphoton Plasmonics: Regioselective Localization and Tracking of Biomolecules on Single Gold Nanoparticles (Adv. Sci. 11/2015). *Advanced Science*, **2015**, 2,	13.6	1
38	Optimizing plasmonic nanoantennas via coordinated multiple coupling. *Scientific Reports*, **2015**, 5, 14788	4.9	70
37	Acousto-plasmofluidics: Acoustic modulation of surface plasmon resonance in microfluidic systems. *AIP Advances*, **2015**, 5, 097161	1.5	8
36	Plasmofluidics: Merging Light and Fluids at the Micro-/Nanoscale. *Small*, **2015**, 11, 4423-44	11	51
35	Efficient Photoelectrochemical Water Oxidation over Hydrogen-Reduced Nanoporous BiVO4 with NiBi Electrocatalyst. *ChemElectroChem*, **2015**, 2, 1385-1395	4.3	43
34	Electronic properties of tin dichalcogenide monolayers and effects of hydrogenation and tension. *Journal of Materials Chemistry C*, **2015**, 3, 3714-3721	7.1	27
33	Moir Nanosphere Lithography. *ACS Nano*, **2015**, 9, 6031-40	16.7	72
32	Molecular switches and motors on surfaces. *Annual Review of Physical Chemistry*, **2013**, 64, 605-30	15.7	107
31	Viologen-mediated assembly of and sensing with carboxylatopillar[5]arene-modified gold nanoparticles. *Journal of the American Chemical Society*, **2013**, 135, 1570-6	16.4	402
30	Photoreaction of matrix-isolated dihydroazulene-functionalized molecules on Au{111}. *Nano Letters*, **2013**, 13, 337-43	11.5	19
29	Photoresponsive molecules in well-defined nanoscale environments. *Advanced Materials*, **2013**, 25, 302-12	14	53
28	Effect of Tether Conductivity on the Efficiency of Photoisomerization of Azobenzene-Functionalized Molecules on Au{111}. *Journal of Physical Chemistry Letters*, **2012**, 3, 2388-94	6.4	22
27	Surface-enhanced Raman spectroscopy to probe photoreaction pathways and kinetics of isolated reactants on surfaces: flat versus curved substrates. *Nano Letters*, **2012**, 12, 5362-8	11.5	38
26	Chemistry and physics of a single atomic layer: strategies and challenges for functionalization of graphene and graphene-based materials. *Chemical Society Reviews*, **2012**, 41, 97-114	58.5	432
25	Visibly transparent polymer solar cells produced by solution processing. *ACS Nano*, **2012**, 6, 7185-90	16.7	434
24	A single-layer, planar, optofluidic Mach-Zehnder interferometer for label-free detection. *Lab on A Chip*, **2011**, 11, 1795-800	7.2	62
23	Fused silver nanowires with metal oxide nanoparticles and organic polymers for highly transparent conductors. *ACS Nano*, **2011**, 5, 9877-82	16.7	326

22	All-Optical Modulation of Localized Surface Plasmon Coupling in a Hybrid System Composed of Photo-Switchable Gratings and Au Nanodisk Arrays. *Journal of Physical Chemistry C*, **2011**, 115, 7717-7722	3.8	48
21	Surface-enhanced Raman spectroscopy to probe reversibly photoswitchable azobenzene in controlled nanoscale environments. *Nano Letters*, **2011**, 11, 3447-52	11.5	89
20	Incident-angle-modulated molecular plasmonic switches: a case of weak exciton-plasmon coupling. *Nano Letters*, **2011**, 11, 2061-5	11.5	96
19	Effects of Intrinsic Fano Interference on Surface Enhanced Raman Spectroscopy: Comparison between Platinum and Gold. *Journal of Physical Chemistry C*, **2010**, 114, 18059-18066	3.8	43
18	Dynamic tuning of plasmon-exciton coupling in arrays of nanodisk-J-aggregate complexes. *Advanced Materials*, **2010**, 22, 3603-7	24	74
17	Towards nanoporous polymer thin film-based drug delivery systems. *Thin Solid Films*, **2009**, 517, 1794-1798	2.1	34
16	Chemically Tuning the Localized Surface Plasmon Resonances of Gold Nanostructure Arrays. *Journal of Physical Chemistry C*, **2009**, 113, 7019-7024	3.8	54
15	Optically switchable gratings based on azo-dye-doped, polymer-dispersed liquid crystals. *Optics Letters*, **2009**, 34, 2351-3	3	66
14	Active molecular plasmonics: controlling plasmon resonances with molecular switches. *Nano Letters* , **2009**, 9, 819-25	11.5	191
13	Coupling between Molecular and Plasmonic Resonances: Effect of Molecular Absorbance. *Journal of Physical Chemistry C*, **2009**, 113, 18499-18503	3.8	48
12	Effects of Geometry and Composition on Charge-Induced Plasmonic Shifts in Gold Nanoparticles. *Journal of Physical Chemistry C*, **2008**, 112, 7309-7317	3.8	72
11	Light-Driven Plasmonic Switches Based on Au Nanodisk Arrays and Photoresponsive Liquid Crystals. *Advanced Materials*, **2008**, 20, 3528-3532	24	136
10	Aminopropyltriethoxysilane (APTES)-functionalized nanoporous polymeric gratings: fabrication and application in biosensing. *Journal of Materials Chemistry*, **2007**, 17, 4896		84
9	Thermal behavior of localized surface plasmon resonance of Au□TiO2 core/shell nanoparticle arrays. *Applied Physics Letters*, **2007**, 90, 183117	3.4	47
8	Microstructure-dependent band structure of HfO2 thin films. *Thin Solid Films*, **2006**, 504, 197-200	2.2	17
7	Combinational template-assisted fabrication of hierarchically ordered nanowire arrays on substrates for device applications. *Applied Physics Letters*, **2006**, 89, 233104	3.4	45
6	Fabrication of large area ordered metal nanoring arrays for nanoscale optical sensors. *Journal of Non-Crystalline Solids*, **2006**, 352, 2532-2535	3.9	24
5	Thermal behaviour of ultra-thin Co overlayers on rutile TiO2(100) surface. *Surface Science*, **2005**, 589, 32-41	1.8	22

4	Al2O3-incorporation effect on the band structure of Ba0.5Sr0.5TiO3 thin films. *Applied Physics Letters*, **2005**, 86, 112910	3.4	23
3	Selective growth of GaAs quantum dots on the triangle nanocavities bounded by SiO2 mask on Si substrate by MBE. *Journal of Crystal Growth*, **2004**, 268, 369-374	1.6	12
2	Grand Challenges in Nanofabrication: There Remains Plenty of Room at the Bottom. *Frontiers in Nanotechnology*,3,	5.5	2
1	Bubble-pen lithography: Fundamentals and applications. *Aggregate*,	22.9	1