Wei-Shun Chang

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82 7,031 38 83 g-index

84 7,798 11.2 5.82 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
82	Plasmons in strongly coupled metallic nanostructures. <i>Chemical Reviews</i> , 2011 , 111, 3913-61	68.1	2348
81	A plasmonic Fano switch. <i>Nano Letters</i> , 2012 , 12, 4977-82	11.5	291
80	Optical characterization of single plasmonic nanoparticles. <i>Chemical Society Reviews</i> , 2015 , 44, 40-57	58.5	258
79	Chiral templating of self-assembling nanostructures by circularly polarized light. <i>Nature Materials</i> , 2015 , 14, 66-72	27	251
78	Vivid, full-color aluminum plasmonic pixels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 14348-53	11.5	243
77	Plasmonic nanorod absorbers as orientation sensors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 2781-6	11.5	222
76	One-Photon Plasmon Luminescence and Its Application to Correlation Spectroscopy as a Probe for Rotational and Translational Dynamics of Gold Nanorods. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 15	938-15	59 4791
75	Chiral plasmonics of self-assembled nanorod dimers. Scientific Reports, 2013, 3, 1934	4.9	165
74	Using the plasmon linewidth to calculate the time and efficiency of electron transfer between gold nanorods and graphene. <i>ACS Nano</i> , 2013 , 7, 11209-17	16.7	158
73	Plasmon emission quantum yield of single gold nanorods as a function of aspect ratio. <i>ACS Nano</i> , 2012 , 6, 7177-84	16.7	156
7 2	From tunable core-shell nanoparticles to plasmonic drawbridges: Active control of nanoparticle optical properties. <i>Science Advances</i> , 2015 , 1, e1500988	14.3	127
71	Electromagnetic energy transport in nanoparticle chains via dark plasmon modes. <i>Nano Letters</i> , 2012 , 12, 1349-53	11.5	121
70	Active modulation of nanorod plasmons. <i>Nano Letters</i> , 2011 , 11, 3797-802	11.5	106
69	Plasmonic Nanoparticles Liquid Crystal Composites Dournal of Physical Chemistry C, 2010 , 114, 7251-725	5 73.8	98
68	Single-particle spectroscopy reveals heterogeneity in electrochemical tuning of the localized surface plasmon. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 14047-55	3.4	93
67	One-dimensional coupling of gold nanoparticle plasmons in self-assembled ring superstructures. <i>Nano Letters</i> , 2009 , 9, 1152-7	11.5	90
66	Single-Particle Spectroscopy of Gold Nanorods beyond the Quasi-Static Limit: Varying the Width at Constant Aspect Ratio. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 4934-4938	3.8	88

65	Toward plasmonic polymers. <i>Nano Letters</i> , 2012 , 12, 3967-72	11.5	82
64	Photoluminescence of Gold Nanorods: Purcell Effect Enhanced Emission from Hot Carriers. <i>ACS Nano</i> , 2018 , 12, 976-985	16.7	79
63	A plethora of plasmonics from the laboratory for nanophotonics at Rice University. <i>Advanced Materials</i> , 2012 , 24, 4842-77, 4774	24	76
62	Circular Differential Scattering of Single Chiral Self-Assembled Gold Nanorod Dimers. <i>ACS Photonics</i> , 2015 , 2, 1602-1610	6.3	75
61	Characterizing Plasmons in Nanoparticles and Their Assemblies with Single Particle Spectroscopy. Journal of Physical Chemistry Letters, 2011 , 2, 2015-2023	6.4	70
60	Plasmonic Sensing and Control of Single-Nanoparticle Electrochemistry. <i>CheM</i> , 2018 , 4, 1560-1585	16.2	67
59	Single-particle absorption spectroscopy by photothermal contrast. <i>Nano Letters</i> , 2015 , 15, 3041-7	11.5	66
58	Bleach-imaged plasmon propagation (BlIPP) in single gold nanowires. <i>Nano Letters</i> , 2010 , 10, 3482-5	11.5	66
57	Chiral and Achiral Nanodumbbell Dimers: The Effect of Geometry on Plasmonic Properties. <i>ACS Nano</i> , 2016 , 10, 6180-8	16.7	64
56	Photoluminescence of a Plasmonic Molecule. <i>ACS Nano</i> , 2015 , 9, 7072-9	16.7	63
56 55	Photoluminescence of a Plasmonic Molecule. <i>ACS Nano</i> , 2015 , 9, 7072-9 Single-Particle Plasmon Voltammetry (spPV) for Detecting Anion Adsorption. <i>Nano Letters</i> , 2016 , 16, 2314-21	16.7	63
	Single-Particle Plasmon Voltammetry (spPV) for Detecting Anion Adsorption. <i>Nano Letters</i> , 2016 ,	Í	
55	Single-Particle Plasmon Voltammetry (spPV) for Detecting Anion Adsorption. <i>Nano Letters</i> , 2016 , 16, 2314-21 Radiative and nonradiative properties of single plasmonic nanoparticles and their assemblies.	11.5	60
55 54	Single-Particle Plasmon Voltammetry (spPV) for Detecting Anion Adsorption. <i>Nano Letters</i> , 2016 , 16, 2314-21 Radiative and nonradiative properties of single plasmonic nanoparticles and their assemblies. <i>Accounts of Chemical Research</i> , 2012 , 45, 1936-45 Identification of higher order long-propagation-length surface plasmon polariton modes in	11.5 24.3	60 59
555453	Single-Particle Plasmon Voltammetry (spPV) for Detecting Anion Adsorption. <i>Nano Letters</i> , 2016 , 16, 2314-21 Radiative and nonradiative properties of single plasmonic nanoparticles and their assemblies. <i>Accounts of Chemical Research</i> , 2012 , 45, 1936-45 Identification of higher order long-propagation-length surface plasmon polariton modes in chemically prepared gold nanowires. <i>ACS Nano</i> , 2012 , 6, 8105-13 Low absorption losses of strongly coupled surface plasmons in nanoparticle assemblies.	11.5 24.3 16.7	60595349
55545352	Single-Particle Plasmon Voltammetry (spPV) for Detecting Anion Adsorption. <i>Nano Letters</i> , 2016 , 16, 2314-21 Radiative and nonradiative properties of single plasmonic nanoparticles and their assemblies. <i>Accounts of Chemical Research</i> , 2012 , 45, 1936-45 Identification of higher order long-propagation-length surface plasmon polariton modes in chemically prepared gold nanowires. <i>ACS Nano</i> , 2012 , 6, 8105-13 Low absorption losses of strongly coupled surface plasmons in nanoparticle assemblies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 19879-84 Tuning the acoustic frequency of a gold nanodisk through its adhesion layer. <i>Nature</i>	11.5 24.3 16.7	60595349
5554535251	Single-Particle Plasmon Voltammetry (spPV) for Detecting Anion Adsorption. <i>Nano Letters</i> , 2016 , 16, 2314-21 Radiative and nonradiative properties of single plasmonic nanoparticles and their assemblies. <i>Accounts of Chemical Research</i> , 2012 , 45, 1936-45 Identification of higher order long-propagation-length surface plasmon polariton modes in chemically prepared gold nanowires. <i>ACS Nano</i> , 2012 , 6, 8105-13 Low absorption losses of strongly coupled surface plasmons in nanoparticle assemblies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 19879-84 Tuning the acoustic frequency of a gold nanodisk through its adhesion layer. <i>Nature Communications</i> , 2015 , 6, 7022	11.5 24.3 16.7 11.5	6059534948

Correlated Absorption and Scattering Spectroscopy of Individual Platinum-Decorated Gold 47 Nanorods Reveals Strong Excitation Enhancement in the Nonplasmonic Metal. ACS Nano, **2017**, 11, $1234\overline{6}^{-1}\overline{2}35\overline{4}^{-2}$ 46 Optomechanics of Single Aluminum Nanodisks. Nano Letters, 2017, 17, 2575-2583 11.5 42 Single quantum dot controls a plasmonic cavity scattering and anisotropy. Proceedings of the 45 11.5 40 National Academy of Sciences of the United States of America, 2015, 112, 12288-92 Anti-Stokes Emission from Hot Carriers in Gold Nanorods. Nano Letters, 2019, 19, 1067-1073 38 44 11.5 Vibrational coupling in plasmonic molecules. Proceedings of the National Academy of Sciences of the 11.5 43 37 United States of America, 2017, 114, 11621-11626 Spectroelectrochemistry of Halide Anion Adsorption and Dissolution of Single Gold Nanorods. 3.8 42 35 Journal of Physical Chemistry C, **2016**, 120, 20604-20612 Influence of cross sectional geometry on surface plasmon polariton propagation in gold nanowires. 16.7 41 34 ACS Nano, 2014, 8, 572-80 40 Single-Crystalline Copper Nano-Octahedra. Chemistry of Materials, 2015, 27, 8185-8188 9.6 34 Absorption Spectroscopy of an Individual Fano Cluster. Nano Letters, 2016, 16, 6497-6503 39 11.5 32 Dye-assisted gain of strongly confined surface plasmon polaritons in silver nanowires. Nano Letters, 38 11.5 30 2014, 14, 3628-33 Structure and dynamics of conjugated polymers in liquid crystalline solvents. *Annual Review of* 15.7 30 37 Physical Chemistry, 2007, 58, 565-84 36 Ultrafast Electron Dynamics in Single Aluminum Nanostructures. Nano Letters, 2019, 19, 3091-3097 11.5 28 Spectral Response of Plasmonic Gold Nanoparticles to Capacitive Charging: Morphology Effects. 6.4 35 27 Journal of Physical Chemistry Letters, 2017, 8, 2681-2688 Comparison of chemical compositions and osteoprotective effects of different sections of velvet 34 27 antler. Journal of Ethnopharmacology, 2014, 151, 352-60 Environmental Symmetry Breaking Promotes Plasmon Mode Splitting in Gold Nanotriangles. 3.8 26 33 Journal of Physical Chemistry C, **2018**, 122, 13259-13266 Polycrystallinity of Lithographically Fabricated Plasmonic Nanostructures Dominates Their Acoustic 32 11.5 25 Vibrational Damping. Nano Letters, 2018, 18, 3494-3501 Optical characterization of chiral plasmonic nanostructures. Journal of Photochemistry and 31 16.4 23 Photobiology C: Photochemistry Reviews, 2017, 32, 40-57 Detailed single-molecule spectroelectrochemical studies of the oxidation of conjugated polymers. 30 22 3.4 Journal of Physical Chemistry B, 2009, 113, 14619-28

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29	Laser-Induced Spectral Hole-Burning through a Broadband Distribution of Au Nanorods. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 20518-20524	3.8	21
28	Seeing double: coupling between substrate image charges and collective plasmon modes in self-assembled nanoparticle superstructures. <i>ACS Nano</i> , 2011 , 5, 4892-901	16.7	21
27	Nematic solvation of segmented polymer chains. <i>Nano Letters</i> , 2005 , 5, 1757-60	11.5	21
26	Exploring the Relationship between Plasmon Damping and Luminescence in Lithographically Prepared Gold Nanorods. <i>ACS Photonics</i> , 2018 , 5, 3541-3549	6.3	20
25	Optimization of Spectral and Spatial Conditions to Improve Super-Resolution Imaging of Plasmonic Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 299-306	6.4	19
24	Snapshot Hyperspectral Imaging (SHI) for Revealing Irreversible and Heterogeneous Plasmonic Processes. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 6865-6875	3.8	19
23	Impurity-induced plasmon damping in individual cobalt-doped hollow Au nanoshells. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 14056-61	3.4	19
22	Gold Nanotetrapods with Unique Topological Structure and Ultranarrow Plasmonic Band as Multifunctional Therapeutic Agents. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 4505-4510	6.4	18
21	Active Far-Field Control of the Thermal Near-Field Plasmon Hybridization. ACS Nano, 2019, 13, 9655-96	63 6.7	15
20	Single molecule spectroscopy of conjugated polymer chains in an electric field-aligned liquid crystal. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 448-53	3.4	15
19	Laser-induced plasmonic heating in copper nanowire fabric as a photothermal catalytic reactor. <i>Chemical Engineering Journal</i> , 2020 , 379, 122285	14.7	15
18	Orthogonal orientations for solvation of polymer molecules in smectic solvents. <i>Physical Review Letters</i> , 2006 , 96, 017801	7.4	14
17	Imaging and Spectroscopy of Single Metal Nanostructure Absorption. <i>Langmuir</i> , 2018 , 34, 3775-3786	4	13
16	Exploiting Evanescent Field Polarization for Giant Chiroptical Modulation from Achiral Gold Half-Rings. <i>ACS Nano</i> , 2018 , 12, 11657-11663	16.7	12
15	Extending single molecule fluorescence observation time by amplitude-modulated excitation. <i>Methods and Applications in Fluorescence</i> , 2013 , 1, 037001-37001	3.1	11
14	Scattering Properties of Individual Hedgehog Particles. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 1201	5 ₃ :18207	2110
13	Au@CdSe heteroepitaxial nanorods: An example of metal nanorods fully covered by a semiconductor shell with strong photo-induced interfacial charge transfer effects. <i>Journal of Colloid and Interface Science</i> , 2018 , 532, 143-152	9.3	10
12	Acoustic Vibrations of Al Nanocrystals: Size, Shape, and Crystallinity Revealed by Single-Particle Transient Extinction Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 3924-3934	2.8	9

11	Using Particle Lithography to Tailor the Architecture of Au Nanoparticle Plasmonic Nanoring Arrays. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 730-736	3.4	9
10	Optical Characterization of Gold Nanoblock Dimers: From Capacitive Coupling to Charge Transfer Plasmons and Rod Modes. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 18005-18011	3.8	9
9	Mechanistic study of bleach-imaged plasmon propagation (BlIPP). <i>Journal of Physical Chemistry B</i> , 2013 , 117, 4611-7	3.4	9
8	Polarized evanescent waves reveal trochoidal dichroism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 16143-16148	11.5	8
7	Synthesis and Multipole Plasmon Resonances of Spherical Aluminum Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 5836-5843	6.4	7
6	Nanoelectrode-emitter spectral overlap amplifies surface enhanced electrogenerated chemiluminescence. <i>Journal of Chemical Physics</i> , 2019 , 151, 144712	3.9	7
5	Anisotropic diffusion of elongated and aligned polymer chains in a nematic solvent. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 19799-803	3.4	7
4	Detailed mechanism for the orthogonal polarization switching of gold nanorod plasmons. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 4195-204	3.6	5
3	Acoustic Vibrations and Energy Dissipation Mechanisms for Lithographically Fabricated Plasmonic Nanostructures Revealed by Single-Particle Transient Extinction Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 1621-1636	3.8	5
2	Plasmonic Materials: A Plethora of Plasmonics from the Laboratory for Nanophotonics at Rice University (Adv. Mater. 36/2012). <i>Advanced Materials</i> , 2012 , 24, 4774-4774	24	4
1	Wide-field four-channel fluorescence imager for biological applications. <i>Journal of Biomedical Optics</i> , 2010 , 15, 026016	3.5	