Yih Hong Lee

List of Publications by Year
in descending order

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Version: 2024-02-01

52 papers	4,037 citations	109321 35 h-index	175258 52 g-index
54 all docs	54 docs citations	54 times ranked	6278 citing authors

#	Article	IF	Citations
1	Designing surface-enhanced Raman scattering (SERS) platforms beyond hotspot engineering: emerging opportunities in analyte manipulations and hybrid materials. Chemical Society Reviews, 2019, 48, 731-756.	38.1	468
2	Favoring the unfavored: Selective electrochemical nitrogen fixation using a reticular chemistry approach. Science Advances, 2018, 4, eaar3208.	10.3	333
3	Plasmon enhanced upconversion luminescence of NaYF4:Yb,Er@SiO2@Ag coreâ€“shell nanocomposites for cell imaging. Nanoscale, 2012, 4, 5132.	5.6	250
4	Vertically Aligned Gold Nanorod Monolayer on Arbitrary Substrates: Self-Assembly and Femtomolar Detection of Food Contaminants. ACS Nano, 2013, 7, 5993-6000.	14.6	218
5	Graphene oxide and shape-controlled silver nanoparticle hybrids for ultrasensitive single-particle surface-enhanced Raman scattering (SERS) sensing. Nanoscale, 2014, 6, 4843-4851.	5.6	206
6	Hierarchical 3D SERS Substrates Fabricated by Integrating Photolithographic Microstructures and Selfâ€Assembly of Silver Nanoparticles. Small, 2014, 10, 2703-2711.	10.0	169
7	Nanoscale surface chemistry directs the tunable assembly of silver octahedra into three two-dimensional plasmonic superlattices. Nature Communications, 2015, 6, 6990.	12.8	137
8	Understanding the Synthetic Pathway of a Single-Phase Quarternary Semiconductor Using Surface-Enhanced Raman Scattering: A Case of Wurtzite Cu₂ZnSnS₄ Nanoparticles. Journal of the American Chemical Society, 2014, 136, 6684-6692.	13.7	129
9	Refractive Index Sensitivities of Noble Metal Nanocrystals: The Effects of Multipolar Plasmon Resonances and the Metal Type. Journal of Physical Chemistry C, 2011, 115, 7997-8004.	3.1	113
10	Superhydrophobic Surface-Enhanced Raman Scattering Platform Fabricated by Assembly of Ag Nanocubes for Trace Molecular Sensing. ACS Applied Materials & Interfaces, 2013, 5, 11409-11418.	8.0	110
11	Three-Dimensional Surface-Enhanced Raman Scattering Platforms: Large-Scale Plasmonic Hotspots for New Applications in Sensing, Microreaction, and Data Storage. Accounts of Chemical Research, 2019, 52, 1844-1854.	15.6	94
12	Chemical speciation of heavy metals by surface-enhanced Raman scattering spectroscopy: identification and quantification of inorganic- and methyl-mercury in water. Nanoscale, 2014, 6, 8368-8375.	5.6	92
13	Nonlinear optical switching behavior of Au nanocubes and nano-octahedra investigated by femtosecond Z-scan measurements. Applied Physics Letters, 2009, 95, .	3.3	89
14	Multiplex plasmonic anti-counterfeiting security labels based on surface-enhanced Raman scattering. Chemical Communications, 2015, 51, 5363-5366.	4.1	89
15	Multiplex Surface-Enhanced Raman Scattering Identification and Quantification of Urine Metabolites in Patient Samples within 30 min. ACS Nano, 2020, 14, 2542-2552.	14.6	87
16	Plasmonic Liquid Marbles: A Miniature Substrateâ€less SERS Platform for Quantitative and Multiplex Ultratrace Molecular Detection. Angewandte Chemie - International Edition, 2014, 53, 5054-5058.	13.8	86
17	A Chemical Route To Increase Hot Spots on Silver Nanowires for Surface-Enhanced Raman Spectroscopy Application. Langmuir, 2012, 28, 14441-14449.	3.5	84
18	Enhanced Optical Properties of Graphene Oxideâ€“Au Nanocrystal Composites. Langmuir, 2012, 28, 321-326.	3.5	73

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19	Localized and Continuous Tuning of Monolayer MoS₂ Photoluminescence Using a Single Shapeâ€Controlled Ag Nanoantenna. Advanced Materials, 2016, 28, 701-706.	21.0	73
20	Noninvasive and Point-of-Care Surface-Enhanced Raman Scattering (SERS)-Based Breathalyzer for Mass Screening of Coronavirus Disease 2019 (COVID-19) under 5 min. ACS Nano, 2022, 16, 2629-2639.	14.6	71
21	Using the Langmuirâ€“Schaefer technique to fabricate large-area dense SERS-active Au nanoprism monolayer films. Nanoscale, 2013, 5, 6404.	5.6	69
22	Surface-Enhanced Raman Scattering (SERS) Taster: A Machine-Learning-Driven Multireceptor Platform for Multiplex Profiling of Wine Flavors. Nano Letters, 2021, 21, 2642-2649.	9.1	66
23	A Chemical Approach To Break the Planar Configuration of Ag Nanocubes into Tunable Two-Dimensional Metasurfaces. Nano Letters, 2016, 16, 3872-3878.	9.1	61
24	Correlating the Plasmonic and Structural Evolutions during the Sulfidation of Silver Nanocubes. ACS Nano, 2013, 7, 9354-9365.	14.6	57
25	Nanoporous Gold Nanoframes with Minimalistic Architectures: Lower Porosity Generates Stronger Surface-Enhanced Raman Scattering Capabilities. Chemistry of Materials, 2015, 27, 7827-7834.	6.7	56
26	Driving CO₂ to a Quasi-Condensed Phase at the Interface between a Nanoparticle Surface and a Metalâ€“Organic Framework at 1 bar and 298 K. Journal of the American Chemical Society, 2017, 139, 11513-11518.	13.7	55
27	Shape-Shifting 3D Protein Microstructures with Programmable Directionality via Quantitative Nanoscale Stiffness Modulation. Small, 2015, 11, 740-748.	10.0	50
28	Aluminum nanostructures with strong visible-range SERS activity for versatile micropatterning of molecular security labels. Nanoscale, 2018, 10, 575-581.	5.6	47
29	Two-Photon-Assisted Polymerization and Reduction: Emerging Formulations and Applications. ACS Applied Materials & Interfaces, 2020, 12, 10061-10079.	8.0	47
30	Creating two self-assembly micro-environments to achieve supercrystals with dual structures using polyhedral nanoparticles. Nature Communications, 2018, 9, 2769.	12.8	46
31	Flexible Three-Dimensional Anticounterfeiting Plasmonic Security Labels: Utilizing Z-Axis-Dependent SERS Readouts to Encode Multilayered Molecular Information. ACS Photonics, 2017, 4, 2529-2536.	6.6	44
32	Plasmonic Silver Nanowire Structures for Two-Dimensional Multiple-Digit Molecular Data Storage Application. ACS Photonics, 2014, 1, 631-637.	6.6	43
33	Direct Metal Writing and Precise Positioning of Gold Nanoparticles within Microfluidic Channels for SERS Sensing of Gaseous Analytes. ACS Applied Materials & Interfaces, 2017, 9, 39584-39593.	8.0	42
34	Precision Synthesis: Designing Hot Spots over Hot Spots via Selective Gold Deposition on Silver Octahedra Edges. Small, 2014, 10, 4940-4950.	10.0	36
35	Spinning Liquid Marble and Its Dual Applications as Microcentrifuge and Miniature Localized Viscometer. ACS Applied Materials & Interfaces, 2016, 8, 23941-23946.	8.0	33
36	Identifying Enclosed Chemical Reaction and Dynamics at the Molecular Level Using Shell-Isolated Miniaturized Plasmonic Liquid Marble. Journal of Physical Chemistry Letters, 2016, 7, 1501-1506.	4.6	30

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37	Enantiospecific Molecular Fingerprinting Using Potential-Modulated Surface-Enhanced Raman Scattering to Achieve Label-Free Chiral Differentiation. ACS Nano, 2021, 15, 1817-1825.	14.6	29
38	Applying a Nanoparticle@MOF Interface To Activate an Unconventional Regioselectivity of an Inert Reaction at Ambient Conditions. Journal of the American Chemical Society, 2020, 142, 11521-11527.	13.7	26
39	Probing Plasmon-NV⁰ Coupling at the Nanometer Scale with Photons and Fast Electrons. ACS Photonics, 2018, 5, 324-328.	6.6	24
40	Triboelectrically boosted SERS on sea-urchin-like gold clusters facilitated by a high dielectric substrate. Nano Energy, 2019, 64, 103959.	16.0	23
41	Dynamic Rotating Liquid Marble for Directional and Enhanced Mass Transportation in Three-Dimensional Microliter Droplets. Journal of Physical Chemistry Letters, 2017, 8, 243-249.	4.6	22
42	Tuning Molecular-Level Polymer Conformations Enables Dynamic Control over Both the Interfacial Behaviors of Ag Nanocubes and Their Assembled Metacrystals. Chemistry of Materials, 2017, 29, 6137-6144.	6.7	20
43	Shape-dependent thermo-plasmonic effect of nanoporous gold at the nanoscale for ultrasensitive heat-mediated remote actuation. Nanoscale, 2018, 10, 16005-16012.	5.6	19
44	Bimetallic Platonic Janus Nanocrystals. Langmuir, 2013, 29, 12844-12851.	3.5	15
45	Formulating an Ideal Protein Photoresist for Fabricating Dynamic Microstructures with High Aspect Ratios and Uniform Responsiveness. ACS Applied Materials & Interfaces, 2016, 8, 8145-8153.	8.0	15
46	Constructing Soft Substrate-less Platforms Using Particle-Assembled Fluidâ€“Fluid Interfaces and Their Prospects in Multiphasic Applications. Chemistry of Materials, 2017, 29, 6563-6577.	6.7	11
47	Quantitative prediction of the position and orientation for an octahedral nanoparticle at liquid/liquid interfaces. Nanoscale, 2017, 9, 11239-11248.	5.6	11
48	Modulating Orientational Order to Organize Polyhedral Nanoparticles into Plastic Crystals and Uniform Metacrystals. Angewandte Chemie - International Edition, 2020, 59, 21183-21189.	13.8	7
49	Assembling substrate-less plasmonic metacrystals at the oil/water interface for multiplex ultratrace analyte detection. Analyst, The, 2016, 141, 5107-5112.	3.5	6
50	Incorporating plasmonic featurization with machine learning to achieve accurate and bidirectional prediction of nanoparticle size and size distribution. Nanoscale Horizons, 2022, 7, 626-633.	8.0	6
51	Modulating Orientational Order to Organize Polyhedral Nanoparticles into Plastic Crystals and Uniform Metacrystals. Angewandte Chemie, 2020, 132, 21369-21375.	2.0	3
52	Tunable Plasmonic Metacrystals: Self-assembly, Plasmonic Properties, and Applications in Surface-enhanced Raman Scattering. , 2022, , 175-232.		0