Charlynn Sher Lin Koh

List of Publications by Year
in descending order

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33	2,086	304743 22	477307 29
papers	citations	h-index	g-index

33	33	33	2678
all docs	docs citations	times ranked	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	ZIFâ€Induced dâ€Band Modification in a Bimetallic Nanocatalyst: Achieving Over 44â€‰% Efficiency in the Ambient Nitrogen Reduction Reaction. Angewandte Chemie - International Edition, 2020, 59, 16997-17003.	13.8	116
4	Plasmonic nose: integrating the MOF-enabled molecular preconcentration effect with a plasmonic array for recognition of molecular-level volatile organic compounds. Chemical Communications, 2018, 54, 2546-2549.	4.1	104
5	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
6	Tracking Airborne Molecules from Afar: Three-Dimensional Metalâ€“Organic Framework-Surface-Enhanced Raman Scattering Platform for Stand-Off and Real-Time Atmospheric Monitoring. ACS Nano, 2019, 13, 12090-12099.	14.6	87
7	Intensifying Heat Using MOFâ€Isolated Graphene for Solarâ€Driven Seawater Desalination at 98% Solarâ€toâ€Thermal Efficiency. Advanced Functional Materials, 2021, 31, 2008904.	14.9	87
8	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
9	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
10	SERSâ€•and Electrochemically Active 3D Plasmonic Liquid Marbles for Molecularâ€Level Spectroelectrochemical Investigation of Microliter Reactions. Angewandte Chemie - International Edition, 2017, 56, 8813-8817.	13.8	57
11	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
12	Aluminum nanostructures with strong visible-range SERS activity for versatile micropatterning of molecular security labels. Nanoscale, 2018, 10, 575-581.	5.6	47
13	Two-Photon-Assisted Polymerization and Reduction: Emerging Formulations and Applications. ACS Applied Materials & Interfaces, 2020, 12, 10061-10079.	8.0	47
14	Plasmonic Nanoparticle-Metalâ€“Organic Framework (NPâ€“MOF) Nanohybrid Platforms for Emerging Plasmonic Applications. , 2021, 3, 557-573.		45
15	Concentrating Immiscible Molecules at Solid@MOF Interfacial Nanocavities to Drive an Inert Gasâ€“Liquid Reaction at Ambient Conditions. Angewandte Chemie - International Edition, 2018, 57, 17058-17062.	13.8	43
16	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
17	Plasmonic Hotspots in Air: An Omnidirectional Threeâ€Dimensional Platform for Standâ€Off Inâ€Air SERS Sensing of Airborne Species. Angewandte Chemie - International Edition, 2018, 57, 5792-5796.	13.8	41
18	A wearable solar-thermal-pyroelectric harvester: Achieving high power output using modified rGO-PEI and polarized PVDF. Nano Energy, 2020, 73, 104723.	16.0	40

#	Article	IF	Citations
19	Nanoporous Gold Bowls: A Kinetic Approach to Control Open Shell Structures and Sizeâ€Tunable Lattice Strain for Electrocatalytic Applications. Small, 2016, 12, 4531-4540.	10.0	36
20	Turning Water from a Hindrance to the Promotor of Preferential Electrochemical Nitrogen Reduction. Chemistry of Materials, 2020, 32, 1674-1683.	6.7	35
21	Microchemical Plant in a Liquid Droplet: Plasmonic Liquid Marble for Sequential Reactions and Attomole Detection of Toxin at Microliter Scale. ACS Applied Materials & Interfaces, 2017, 9, 39635-39640.	8.0	34
22	ZIFâ€Induced dâ€Band Modification in a Bimetallic Nanocatalyst: Achieving Over 44â€‰% Efficiency in the Ambient Nitrogen Reduction Reaction. Angewandte Chemie, 2020, 132, 17145-17151.	2.0	31
23	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
24	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
25	SERSâ€•and Electrochemically Active 3D Plasmonic Liquid Marbles for Molecularâ€Level Spectroelectrochemical Investigation of Microliter Reactions. Angewandte Chemie, 2017, 129, 8939-8943.	2.0	16
26	Inducing Ring Complexation for Efficient Capture and Detection of Small Gaseous Molecules Using SERS for Environmental Surveillance. Angewandte Chemie - International Edition, 2022, 61, .	13.8	15
27	In Situ Differentiation of Multiplex Noncovalent Interactions Using SERS and Chemometrics. ACS Applied Materials & Interfaces, 2020, 12, 33421-33427.	8.0	10
28	Concentrating Immiscible Molecules at Solid@MOF Interfacial Nanocavities to Drive an Inert Gasâ€“Liquid Reaction at Ambient Conditions. Angewandte Chemie, 2018, 130, 17304-17308.	2.0	7
29	Plasmonic Hotspots in Air: An Omnidirectional Threeâ€Dimensional Platform for Standâ€Off Inâ€Air SERS Sensing of Airborne Species. Angewandte Chemie, 2018, 130, 5894-5898.	2.0	5
30	Plasmonic-induced overgrowth of amorphous molybdenum sulfide on nanoporous gold: An ambient synthesis method of hybrid nanoparticles with enhanced electrocatalytic activity. Journal of Chemical Physics, 2019, 151, 244709.	3.0	4
31	Nanoplasmonic materials for surface-enhanced Raman scattering. , 2022, , 33-79.		1
32	Air-stable plasmonic bubbles as a versatile three-dimensional surface-enhanced Raman scattering platform for bi-directional gas sensing. Chemical Communications, 0, , .	4.1	1
33	Tunable Plasmonic Metacrystals: Self-assembly, Plasmonic Properties, and Applications in Surface-enhanced Raman Scattering. , 2022, , 175-232.		0