Shu Chen

List of Publications by Year
in descending order

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25 papers	2,054 citations	430874 18 h-index	610901 24 g-index
25 all docs	25 docs citations	25 times ranked	2828 citing authors

#	Article	IF	Citations
1	In situ Raman spectroscopic evidence for oxygen reduction reaction intermediates at platinum single-crystal surfaces. Nature Energy, 2019, 4, 60-67.	39.5	478
2	In situ probing electrified interfacial water structures at atomically flat surfaces. Nature Materials, 2019, 18, 697-701.	27.5	352
3	In situ dynamic tracking of heterogeneous nanocatalytic processes by shell-isolated nanoparticle-enhanced Raman spectroscopy. Nature Communications, 2017, 8, 15447.	12.8	185
4	A Plasmonic Sensor Array with Ultrahigh Figures of Merit and Resonance Linewidths down to 3 nm. Advanced Materials, 2018, 30, e1706031.	21.0	132
5	Revealing the Role of Interfacial Properties on Catalytic Behaviors by in Situ Surface-Enhanced Raman Spectroscopy. Journal of the American Chemical Society, 2017, 139, 10339-10346.	13.7	127
6	Plasmon-Induced Magnetic Resonance Enhanced Raman Spectroscopy. Nano Letters, 2018, 18, 2209-2216.	9.1	96
7	How To Light Special Hot Spots in Multiparticleâ€“Film Configurations. ACS Nano, 2016, 10, 581-587.	14.6	79
8	Multifunctional Fe₃O₄@SiO₂â€“Au Satellite Structured SERS Probe for Charge Selective Detection of Food Dyes. ACS Applied Materials & Interfaces, 2016, 8, 3056-3062.	8.0	77
9	Probes for Ultrasensitive THz Nanoscopy. ACS Photonics, 2019, 6, 1279-1288.	6.6	75
10	Probing Interfacial Electronic and Catalytic Properties on Wellâ€Defined Surfaces by Using Inâ€…Situ Raman Spectroscopy. Angewandte Chemie - International Edition, 2018, 57, 11257-11261.	13.8	60
11	Largeâ€Area Hybrid Plasmonic Optical Cavity (HPOC) Substrates for Surfaceâ€Enhanced Raman Spectroscopy. Advanced Functional Materials, 2018, 28, 1802263.	14.9	51
12	A facile method for the synthesis of large-size Ag nanoparticles as efficient SERS substrates. Journal of Raman Spectroscopy, 2016, 47, 662-667.	2.5	49
13	Electromagnetic Enhancement in Shell-Isolated Nanoparticle-Enhanced Raman Scattering from Gold Flat Surfaces. Journal of Physical Chemistry C, 2015, 119, 5246-5251.	3.1	44
14	Probing the Location of 3D Hot Spots in Gold Nanoparticle Films Using Surface-Enhanced Raman Spectroscopy. Analytical Chemistry, 2019, 91, 5316-5322.	6.5	44
15	Acoustic Graphene Plasmon Nanoresonators for Field-Enhanced Infrared Molecular Spectroscopy. ACS Photonics, 2017, 4, 3089-3097.	6.6	43
16	Real-space nanoimaging of THz polaritons in the topological insulator Bi2Se3. Nature Communications, 2022, 13, 1374.	12.8	33
17	Terahertz Nanoimaging and Nanospectroscopy of Chalcogenide Phase-Change Materials. ACS Photonics, 2020, 7, 3499-3506.	6.6	29
18	Large scale synthesis of pinholeâ€free shellâ€isolated nanoparticles (SHINs) using improved atomic layer deposition (ALD) method for practical applications. Journal of Raman Spectroscopy, 2015, 46, 1200-1204.	2.5	26

#	Article	IF	Citations
19	Fano Interference Between Higher Localized and Propagating Surface Plasmon Modes in Nanovoid Arrays. Plasmonics, 2015, 10, 71-76.	3.4	21
20	Probing Interfacial Electronic and Catalytic Properties on Wellâ€Defined Surfaces by Using Inâ€…Situ Raman Spectroscopy. Angewandte Chemie, 2018, 130, 11427-11431.	2.0	19
21	Surface-Enhanced Raman Scattering on Uniform Pd and Pt Films: From Ill-Defined to Structured Surfaces. Journal of Physical Chemistry C, 2013, 117, 24843-24850.	3.1	14
22	Self-assembly of subwavelength nanostructures with symmetry breaking in solution. Nanoscale, 2016, 8, 2951-2959.	5.6	10
23	Internal-Modified Dithiol DNAâ€“Directed Au Nanoassemblies: Geometrically Controlled Selfâ€“Assembly and Quantitative Surfaceâ€“Enhanced Raman Scattering Properties. Scientific Reports, 2015, 5, 16715.	3.3	8
24	Surface plasmon resonance â€œhot spotsâ€•and near-field enhanced spectroscopy at interfaces. Wuli Xuebao/Acta Physica Sinica, 2019, 68, 147801.	0.5	2
25	Particle-dressed, Silica Shell-isolated Cavity Architectures for Surface-enhanced Raman Scattering. Chemistry Letters, 2015, 44, 989-991.	1.3	0