Li-Lin Tay

List of Publications by Year
in descending order

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53	3,531	304743	330143
papers	citations	22 h-index	37 g-index

54	54	54	4559
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Present and Future of Surface-Enhanced Raman Scattering. ACS Nano, 2020, 14, 28-117.	14.6	2,153
2	SERS and the Single Molecule. , 2002, , 215-227.		177
3	Mammalian Cell Surface Imaging with Nitrile-Functionalized Nanoprobes:â€‰ Biophysical Characterization of Aggregation and Polarization Anisotropy in SERS Imaging. Journal of the American Chemical Society, 2007, 129, 14-15.	13.7	128
4	NanoaggregateâEmbedded Beads as Novel Raman Labels for Biodetection. Advanced Functional Materials, 2009, 19, 242-248.	14.9	83
5	Development of nanoparticle probes for multiplex SERS imaging of cell surface proteins. Nanoscale, 2010, 2, 1413.	5.6	72
6	Silica encapsulated SERS nanoprobe conjugated to the bacteriophage tailspike protein for targeted detection ofSalmonella. Chemical Communications, 2012, 48, 1024-1026.	4.1	63
7	SingleâDomain AntibodyâConjugated NanoaggregateâEmbedded Beads for Targeted Detection of Pathogenic Bacteria. Chemistry - A European Journal, 2009, 15, 9330-9334.	3.3	60
8	Raman spectroscopy and TEM characterization of solid particulate matter emitted from soot generators and aircraft turbine engines. Aerosol Science and Technology, 2017, 51, 518-531.	3.1	51
9	Single-Domain Antibody-Nanoparticles: Promising Architectures for Increased Staphylococcus aureus Detection Specificity and Sensitivity. Bioconjugate Chemistry, 2009, 20, 1966-1974.	3.6	50
10	Nanoscale Aggregation of Cellular Î²2-Adrenergic Receptors Measured by Plasmonic Interactions of Functionalized Nanoparticles. ACS Nano, 2009, 3, 2329-2339.	14.6	49
11	Carbon-bonded silver nanoparticles: alkyne-functionalized ligands for SERS imaging of mammalian cells. Chemical Communications, 2011, 47, 3156.	4.1	49
12	Glabrescol. A unique squalene-derived penta-THF diol from Spathelia glabrescens (rutaceae). Tetrahedron Letters, 1995, 36, 9137-9140.	1.4	47
13	Multiple Surface Plasmon Resonances and Near-Infrared Field Enhancement of Gold Nanowells. Analytical Chemistry, 2008, 80, 4945-4950.	6.5	43
14	SERS detection and boron delivery to cancer cells using carborane labelled nanoparticles. Chemical Communications, 2009, , 6750.	4.1	42
15	Surface-Enhanced Raman and Resonant Rayleigh Scatterings From Adsorbate Saturated Nanoparticles. Journal of Physical Chemistry C, 2010, 114, 7356-7363.	3.1	40
16	Detection of acute brain injury by Raman spectral signature. Analyst, The, 2011, 136, 1620.	3.5	37
17	Paperâbased surfaceâenhanced Raman spectroscopy sensors for field applications. Journal of Raman Spectroscopy, 2021, 52, 563-572.	2.5	35
18	Raman Imaging and Kelvin Probe Microscopy for the Examination of the Heterogeneity of Doping in Polycrystalline Boron-Doped Diamond Electrodes. Journal of Physical Chemistry B, 2006, 110, 23888-23897.	2.6	34

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19	Suppression of interfacial reaction for HfO2 on silicon by pre-CF4 plasma treatment. Applied Physics Letters, 2006, 89, 072904.	3.3	31
20	Surface-enhanced Raman and optical scattering in coupled plasmonic nanoclusters. Journal of Modern Optics, 2013, 60, 1107-1114.	1.3	30
21	Self-assembled vertically aligned Au nanorod arrays for surface-enhanced Raman scattering (SERS) detection of Cannabinol. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 196, 222-228.	3.9	28
22	Raman based detection of Staphylococcus aureus utilizing single domain antibody coated nanoparticle labels and magnetic trapping. Analytical Methods, 2013, 5, 4152.	2.7	24
23	Caesalpinin, a rearranged cassane furanoditerpene of Caesalpinia bonducella. Tetrahedron Letters, 1997, 38, 5767-5770.	1.4	23
24	A SERS and electrical sensor from gas-phase generated Ag nanoparticles self-assembled on planar substrates. Analyst, The, 2016, 141, 1721-1733.	3.5	20
25	Influence of growth temperature on order within silicon films grown by ultrahigh-vacuum evaporation on silica. Applied Physics Letters, 2006, 88, 121920.	3.3	18
26	Multifunctional nanoprobes for pathogen-selective capture and detection. Chemical Communications, 2012, 48, 561-563.	4.1	17
27	An amorphous-to-crystalline phase transition within thin silicon films grown by ultra-high-vacuum evaporation and its impact on the optical response. Journal of Applied Physics, 2016, 119, .	2.5	17
28	Iodide Functionalized Paper-Based SERS Sensors for Improved Detection of Narcotics. Frontiers in Chemistry, 2021, 9, 680556.	3.6	15
29	Overfitting One-Dimensional convolutional neural networks for Raman spectra identification. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 272, 120961.	3.9	14
30	3,4-Epoxy-8,9-dihydropiplartine. A New Imide fromPiper verrucosum. Journal of Natural Products, 1996, 59, 436-437.	3.0	13
31	Synthesis and characterization of CN-modified protein analogues as potential vibrational contrast agents. Bioorganic Chemistry, 2007, 35, 284-293.	4.1	13
32	Evaluation of chemical labeling strategies for monitoring HCV RNA using vibrational microscopy. Organic and Biomolecular Chemistry, 2007, 5, 2380.	2.8	12
33	Fluorinated HfO<inf>2</inf> gate dielectrics engineering for CMOS by pre- and post-CF<inf>4</inf> plasma passivation. , 2008, , .		7
34	Anomaly detection using 1D convolutional neural networks for surface enhanced raman scattering. , 2020, , .		6
35	Inkjet-printed paper-based surface enhanced Raman scattering (SERS) sensors for the detection of narcotics. MRS Advances, 2022, 7, 190-196.	0.9	6
36	Analysis of service-aged 200 kV and 400 kV silicone rubber insulation in the Gulf region. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 3539-3546.	2.9	5

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37	Infrared spectroscopy of self-assembled monolayer films on silicon. Surface Science, 2007, 601, 2566-2570.	1.9	4
38	Methodology for binary detection analysis of inkjet-printed optical sensors for chemical detection. MRS Advances, 2021, 6, 1-5.	0.9	4
39	Convolutional Neural Networks for Raman Spectral Analysis of Chemical Mixtures. , 2021, , .		4
40	Detection of Staphylococci aureus cells with single domain antibody functionalized Raman nanoparobes. , 2007, 6796, 101.		2
41	Surface-Enhanced Infrared Absorption and Raman Scattering of Adsorbate Molecules on Self-assembled Au Nanorods. Materials Research Society Symposia Proceedings, 2011, 1294, 49001.	0.1	2
42	Surface Plasmons. , 2016, , 1186-1195.		2
43	Crystallinity, order, the thin-film silicon continuum, and the spectral dependence of the refractive index in thin silicon films grown through ultra-high-vacuum evaporation for a range of growth temperatures. Journal of Non-Crystalline Solids, 2021, 559, 120657.	3.1	1
44	Detection of Cell Surface Protein with Surface Enhanced Raman Spectroscopy. Materials Research Society Symposia Proceedings, 2006, 952, 4.	0.1	0
45	Application of surface-enhanced Raman toward the detection of cell membrane proteins. , 2007, , .		0
46	Multimodal plasmonic nanosensor for the detection of pathogenic bacteria. , 2009, , .		0
47	Exploiting plasmonics in biosensing and bioimaging: monitoring cell receptors with surface enhanced spectroscopy and microscopy. , 2009, , .		0
48	Nanoaggregate Embedded Beads as SERS Nanosensor for Multiplexed Pathogen Detection. , 2010, , .		0
49	Biography of Martin Moskovits. Journal of Physical Chemistry C, 2010, 114, 7213-7216.	3.1	0
50	An amorphous-to-crystalline phase transition within thin silicon films grown through ultra-high-vacuum evaporation on fused quartz substrates. MRS Advances, 2016, 1, 3257-3262.	0.9	0
51	Multilayered Au nanorod arrays for surface enhanced Raman and infrared absorption spectroscopies. , 2020, , .		0
52	Receiver operating characteristics analysis of Surface Enhanced Raman Spectroscopy (SERS) sensors. , 2020, , .		0
53	Design Considerations for Fit-for-Purpose SERS Sensors. , 2021, , .		0