

Li-Lin Tay

List of Publications by Year in descending order

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53
papers

3,531
citations

304743

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docs citations

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4559
citing authors

#	ARTICLE	IF	CITATIONS
1	Overfitting One-Dimensional convolutional neural networks for Raman spectra identification. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 272, 120961.	3.9	14
2	Inkjet-printed paper-based surface enhanced Raman scattering (SERS) sensors for the detection of narcotics. <i>MRS Advances</i> , 2022, 7, 190-196.	0.9	6
3	Paper-based surface-enhanced Raman spectroscopy sensors for field applications. <i>Journal of Raman Spectroscopy</i> , 2021, 52, 563-572.	2.5	35
4	Methodology for binary detection analysis of inkjet-printed optical sensors for chemical detection. <i>MRS Advances</i> , 2021, 6, 1-5.	0.9	4
5	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. <i>Journal of Non-Crystalline Solids</i> , 2021, 559, 120657.	3.1	1
6	Iodide Functionalized Paper-Based SERS Sensors for Improved Detection of Narcotics. <i>Frontiers in Chemistry</i> , 2021, 9, 680556.	3.6	15
7	Design Considerations for Fit-for-Purpose SERS Sensors. , 2021, , .		0
8	Convolutional Neural Networks for Raman Spectral Analysis of Chemical Mixtures. , 2021, , .		4
9	Present and Future of Surface-Enhanced Raman Scattering. <i>ACS Nano</i> , 2020, 14, 28-117.	14.6	2,153
10	Multilayered Au nanorod arrays for surface enhanced Raman and infrared absorption spectroscopies. , 2020, , .		0
11	Anomaly detection using 1D convolutional neural networks for surface enhanced raman scattering. , 2020, , .		6
12	Receiver operating characteristics analysis of Surface Enhanced Raman Spectroscopy (SERS) sensors. , 2020, , .		0
13	Self-assembled vertically aligned Au nanorod arrays for surface-enhanced Raman scattering (SERS) detection of Cannabinol. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 196, 222-228.	3.9	28
14	Raman spectroscopy and TEM characterization of solid particulate matter emitted from soot generators and aircraft turbine engines. <i>Aerosol Science and Technology</i> , 2017, 51, 518-531.	3.1	51
15	An amorphous-to-crystalline phase transition within thin silicon films grown through ultra-high-vacuum evaporation on fused quartz substrates. <i>MRS Advances</i> , 2016, 1, 3257-3262.	0.9	0
16	An amorphous-to-crystalline phase transition within thin silicon films grown by ultra-high-vacuum evaporation and its impact on the optical response. <i>Journal of Applied Physics</i> , 2016, 119, .	2.5	17
17	Analysis of service-aged 200 kV and 400 kV silicone rubber insulation in the Gulf region. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2016, 23, 3539-3546.	2.9	5
18	A SERS and electrical sensor from gas-phase generated Ag nanoparticles self-assembled on planar substrates. <i>Analyst, The</i> , 2016, 141, 1721-1733.	3.5	20

#	ARTICLE	IF	CITATIONS
19	Surface Plasmons. , 2016, , 1186-1195.		2
20	Surface-enhanced Raman and optical scattering in coupled plasmonic nanoclusters. Journal of Modern Optics, 2013, 60, 1107-1114.	1.3	30
21	Raman based detection of Staphylococcus aureus utilizing single domain antibody coated nanoparticle labels and magnetic trapping. Analytical Methods, 2013, 5, 4152.	2.7	24
22	Multifunctional nanoprobes for pathogen-selective capture and detection. Chemical Communications, 2012, 48, 561-563.	4.1	17
23	Silica encapsulated SERS nanoprobe conjugated to the bacteriophage tailspike protein for targeted detection of Salmonella. Chemical Communications, 2012, 48, 1024-1026.	4.1	63
24	Carbon-bonded silver nanoparticles: alkyne-functionalized ligands for SERS imaging of mammalian cells. Chemical Communications, 2011, 47, 3156.	4.1	49
25	Detection of acute brain injury by Raman spectral signature. Analyst, The, 2011, 136, 1620.	3.5	37
26	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
27	Nanoaggregate Embedded Beads as SERS Nanosensor for Multiplexed Pathogen Detection. , 2010, , .		0
28	Biography of Martin Moskovits. Journal of Physical Chemistry C, 2010, 114, 7213-7216.	3.1	0
29	Surface-Enhanced Raman and Resonant Rayleigh Scatterings From Adsorbate Saturated Nanoparticles. Journal of Physical Chemistry C, 2010, 114, 7356-7363.	3.1	40
30	Development of nanoparticle probes for multiplex SERS imaging of cell surface proteins. Nanoscale, 2010, 2, 1413.	5.6	72
31	Multimodal plasmonic nanosensor for the detection of pathogenic bacteria. , 2009, , .		0
32	Exploiting plasmonics in biosensing and bioimaging: monitoring cell receptors with surface enhanced spectroscopy and microscopy. , 2009, , .		0
33	Nanoaggregate Embedded Beads as Novel Raman Labels for Biodetection. Advanced Functional Materials, 2009, 19, 242-248.	14.9	83
34	Single-Domain Antibody-Conjugated Nanoaggregate-Embedded Beads for Targeted Detection of Pathogenic Bacteria. Chemistry - A European Journal, 2009, 15, 9330-9334.	3.3	60
35	Single-Domain Antibody-Nanoparticles: Promising Architectures for Increased <i>Staphylococcus aureus</i> Detection Specificity and Sensitivity. Bioconjugate Chemistry, 2009, 20, 1966-1974.	3.6	50
36	Nanoscale Aggregation of Cellular β 2-Adrenergic Receptors Measured by Plasmonic Interactions of Functionalized Nanoparticles. ACS Nano, 2009, 3, 2329-2339.	14.6	49

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37	SERS detection and boron delivery to cancer cells using carborane labelled nanoparticles. <i>Chemical Communications</i> , 2009, , 6750.	4.1	42
38	Fluorinated HfO ₂ gate dielectrics engineering for CMOS by pre- and post-CF ₄ plasma passivation. , 2008, , .		7
39	Multiple Surface Plasmon Resonances and Near-Infrared Field Enhancement of Gold Nanowells. <i>Analytical Chemistry</i> , 2008, 80, 4945-4950.	6.5	43
40	Detection of <i>Staphylococcus aureus</i> cells with single domain antibody functionalized Raman nanoparobes. , 2007, 6796, 101.		2
41	Application of surface-enhanced Raman toward the detection of cell membrane proteins. , 2007, , .		0
42	Evaluation of chemical labeling strategies for monitoring HCV RNA using vibrational microscopy. <i>Organic and Biomolecular Chemistry</i> , 2007, 5, 2380.	2.8	12
43	Mammalian Cell Surface Imaging with Nitrile-Functionalized Nanoprobes: Biophysical Characterization of Aggregation and Polarization Anisotropy in SERS Imaging. <i>Journal of the American Chemical Society</i> , 2007, 129, 14-15.	13.7	128
44	Synthesis and characterization of CN-modified protein analogues as potential vibrational contrast agents. <i>Bioorganic Chemistry</i> , 2007, 35, 284-293.	4.1	13
45	Infrared spectroscopy of self-assembled monolayer films on silicon. <i>Surface Science</i> , 2007, 601, 2566-2570.	1.9	4
46	Influence of growth temperature on order within silicon films grown by ultrahigh-vacuum evaporation on silica. <i>Applied Physics Letters</i> , 2006, 88, 121920.	3.3	18
47	Raman Imaging and Kelvin Probe Microscopy for the Examination of the Heterogeneity of Doping in Polycrystalline Boron-Doped Diamond Electrodes. <i>Journal of Physical Chemistry B</i> , 2006, 110, 23888-23897.	2.6	34
48	Detection of Cell Surface Protein with Surface Enhanced Raman Spectroscopy. <i>Materials Research Society Symposia Proceedings</i> , 2006, 952, 4.	0.1	0
49	Suppression of interfacial reaction for HfO ₂ on silicon by pre-CF ₄ plasma treatment. <i>Applied Physics Letters</i> , 2006, 89, 072904.	3.3	31
50	SERS and the Single Molecule. , 2002, , 215-227.		177
51	Caesalpinin, a rearranged cassane furanoditerpene of <i>Caesalpinia bonducella</i> . <i>Tetrahedron Letters</i> , 1997, 38, 5767-5770.	1.4	23
52	3,4-Epoxy-8,9-dihydroplartine. A New Imide from <i>Piper verrucosum</i> . <i>Journal of Natural Products</i> , 1996, 59, 436-437.	3.0	13
53	Glabrescol. A unique squalene-derived penta-THF diol from <i>Spathelia glabrescens</i> (rutaceae). <i>Tetrahedron Letters</i> , 1995, 36, 9137-9140.	1.4	47