Cristiano D'Andrea

List of Publications by Year
in descending order

41	1,625	279798	315739
papers	citations	23	38
		h-index	g-index

42	42	42	2711
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Optical Nanoantennas for Multiband Surface-Enhanced Infrared and Raman Spectroscopy. ACS Nano, 2013, 7, 3522-3531.	14.6	201
2	SERS detection of Biomolecules at Physiological pH via aggregation of Gold Nanorods mediated by Optical Forces and Plasmonic Heating. Scientific Reports, 2016, 6, 26952.	3.3	141
3	Strongly enhanced light trapping in a two-dimensional silicon nanowire random fractal array. Light: Science and Applications, 2016, 5, e16062-e16062.	16.6	97
4	Re-radiation Enhancement in Polarized Surface-Enhanced Resonant Raman Scattering of Randomly Oriented Molecules on Self-Organized Gold Nanowires. ACS Nano, 2011, 5, 5945-5956.	14.6	94
5	Gold Dimer Nanoantenna with Slanted Gap for Tunable LSPR and Improved SERS. Journal of Physical Chemistry C, 2014, 118, 3209-3219.	3.1	92
6	Seeding variability of different alpha synuclein strains in synucleinopathies. Annals of Neurology, 2019, 85, 691-703.	5.3	85
7	High Sensitivity, High Selectivity SERS Detection of MnSOD Using Optical Nanoantennas Functionalized with Aptamers. Journal of Physical Chemistry C, 2015, 119, 15532-15540.	3.1	68
8	Manipulation and Raman Spectroscopy with Optically Trapped Metal Nanoparticles Obtained by Pulsed Laser Ablation in Liquids. Journal of Physical Chemistry C, 2011, 115, 5115-5122.	3.1	65
9	Double-Wall Nanotubes and Graphene Nanoplatelets for Hybrid Conductive Adhesives with Enhanced Thermal and Electrical Conductivity. ACS Applied Materials & Interfaces, 2016, 8, 23244-23259.	8.0	63
10	SERS Enhancement and Field Confinement in Nanosensors Based on Self-Organized Gold Nanowires Produced by Ion-Beam Sputtering. Journal of Physical Chemistry C, 2014, 118, 8571-8580.	3.1	51
11	Coherent backscattering of Raman light. Nature Photonics, 2017, 11, 170-176.	31.4	44
12	New Generation of Ultrasensitive Label-Free Optical Si Nanowire-Based Biosensors. ACS Photonics, 2018, 5, 471-479.	6.6	43
13	Optical Aggregation of Gold Nanoparticles for SERS Detection of Proteins and Toxins in Liquid Environment: Towards Ultrasensitive and Selective Detection. Materials, 2018, 11, 440.	2.9	42
14	Light-emitting silicon nanowires obtained by metal-assisted chemical etching. Semiconductor Science and Technology, 2017, 32, 043004.	2.0	39
15	Label-free SERS detection of proteins based on machine learning classification of chemo-structural determinants. Analyst, The, 2021, 146, 674-682.	3.5	38
16	A Shape-Engineered Surface-Enhanced Raman Scattering Optical Fiber Sensor Working from the Visible to the Near-Infrared. Plasmonics, 2013, 8, 13-23.	3.4	36
17	Nanoscale Discrimination between Toxic and Nontoxic Protein Misfolded Oligomers with Tipâ€Enhanced Raman Spectroscopy. Small, 2018, 14, e1800890.	10.0	35
18	Silicon nanowire luminescent sensor for cardiovascular risk in saliva. Journal of Materials Science: Materials in Electronics, 2020, 31, 10-17.	2.2	34

#	Article	IF	Citations
19	Decoration of silicon nanowires with silver nanoparticles for ultrasensitive surface enhanced Raman scattering. Nanotechnology, 2016, 27, 375603.	2.6	33
20	Tuning the structural and optical properties of gold/silver nano-alloys prepared by laser ablation in liquids for optical limiting, ultra-sensitive spectroscopy, and optical trapping. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 2490-2498.	2.3	31
21	Silicon nanowire and carbon nanotube hybrid for room temperature multiwavelength light source. Scientific Reports, 2015, 5, 16753.	3.3	26
22	Raman and IR spectroscopy of manganese superoxide dismutase, a pathology biomarker. Vibrational Spectroscopy, 2012, 62, 50-58.	2.2	25
23	Structural differences between toxic and nontoxic HypF-N oligomers. Chemical Communications, 2018, 54, 8637-8640.	4.1	25
24	Optical trapping of silver nanoplatelets. Optics Express, 2015, 23, 8720.	3.4	23
25	Fractal Silver Dendrites as 3D SERS Platform for Highly Sensitive Detection of Biomolecules in Hydration Conditions. Nanomaterials, 2019, 9, 1630.	4.1	23
26	Spotâ€on SERS Detection of Biomolecules with Laserâ€Patterned Dot Arrays of Assembled Silver Nanowires. ChemNanoMat, 2019, 5, 1036-1043.	2.8	21
27	Functionalization of silicon nanowire arrays by silver nanoparticles for the laser desorption ionization mass spectrometry analysis of vegetable oils. Journal of Mass Spectrometry, 2016, 51, 849-856.	1.6	19
28	Nanoscopic insights into the surface conformation of neurotoxic amyloid Î² oligomers. RSC Advances, 2020, 10, 21907-21913.	3.6	19
29	Metal Nanoparticles Deposited on Porous Silicon Templates as Novel Substrates for SERS. Croatica Chemica Acta, 2015, 88, 437-444.	0.4	17
30	Hollow core photonic crystal fiber-assisted Raman spectroscopy as a tool for the detection of Alzheimerâ€™s disease biomarkers. Journal of Biomedical Optics, 2020, 25, 1.	2.6	15
31	Low cost synthesis of silicon nanowires for photonic applications. Journal of Materials Science: Materials in Electronics, 2020, 31, 34-40.	2.2	14
32	Triggering molecular assembly at the mesoscale for advanced Raman detection of proteins in liquid. Scientific Reports, 2018, 8, 1033.	3.3	13
33	Low cost tips for tip-enhanced Raman spectroscopy fabricated by two-step electrochemical etching of 125 Âµm diameter gold wires. Beilstein Journal of Nanotechnology, 2018, 9, 2718-2729.	2.8	13
34	Cost Effective Silver Nanowire-Decorated Graphene Paper for Drop-On SERS Biodetection. Nanomaterials, 2021, 11, 1495.	4.1	11
35	Probing the Structure of Toxic Amyloid-Î² Oligomers with Electron Spin Resonance and Molecular Modeling. ACS Chemical Neuroscience, 2021, 12, 1150-1161.	3.5	9
36	On the SERS depolarization ratio. Nanospectroscopy, 2015, 1, .	0.7	6

#	Article	IF	Citations
37	Silicon nanowires: synthesis, optical properties and applications. Physica Status Solidi C: Current Topics in Solid State Physics, 2014, 11, 1622-1625.	0.8	5
38	Ion-exchanged glass microrods as hybrid SERS/fluorescence substrates for molecular beacon-based DNA detection. Analytical and Bioanalytical Chemistry, 2021, 413, 6171-6182.	3.7	4
39	Metal-decorated silicon nanowires for laser desorption-ionization mass spectrometry. SPIE Newsroom, 0, , .	0.1	4
40	Label-free SERS detection of proteins based on machine learning classification of chemostructural determinants. , 2021, , .		1
41	Label-free SERS/machine learning procedures for protein classification. , 2021, , .		0