

# Cristiano D'Andrea

## List of Publications by Year in descending order

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Version: 2024-02-01

41  
papers

1,625  
citations

279798

23  
h-index

315739

38  
g-index

42  
all docs

42  
docs citations

42  
times ranked

2711  
citing authors

#	ARTICLE	IF	CITATIONS
1	Label-free SERS detection of proteins based on machine learning classification of chemo-structural determinants. <i>Analyst</i> , The, 2021, 146, 674-682.	3.5	38
2	Probing the Structure of Toxic Amyloid- $\beta^2$ Oligomers with Electron Spin Resonance and Molecular Modeling. <i>ACS Chemical Neuroscience</i> , 2021, 12, 1150-1161.	3.5	9
3	Cost Effective Silver Nanowire-Decorated Graphene Paper for Drop-On SERS Biodetection. <i>Nanomaterials</i> , 2021, 11, 1495.	4.1	11
4	Ion-exchanged glass microrods as hybrid SERS/fluorescence substrates for molecular beacon-based DNA detection. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 6171-6182.	3.7	4
5	Label-free SERS detection of proteins based on machine learning classification of chemostructural determinants. , 2021, , .		1
6	Label-free SERS/machine learning procedures for protein classification. , 2021, , .		0
7	Silicon nanowire luminescent sensor for cardiovascular risk in saliva. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 10-17.	2.2	34
8	Low cost synthesis of silicon nanowires for photonic applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 34-40.	2.2	14
9	Nanosopic insights into the surface conformation of neurotoxic amyloid $\beta^2$ oligomers. <i>RSC Advances</i> , 2020, 10, 21907-21913.	3.6	19
10	Hollow core photonic crystal fiber-assisted Raman spectroscopy as a tool for the detection of Alzheimer's disease biomarkers. <i>Journal of Biomedical Optics</i> , 2020, 25, 1.	2.6	15
11	Seeding variability of different alpha synuclein strains in synucleinopathies. <i>Annals of Neurology</i> , 2019, 85, 691-703.	5.3	85
12	Spot-on SERS Detection of Biomolecules with Laser-Patterned Dot Arrays of Assembled Silver Nanowires. <i>ChemNanoMat</i> , 2019, 5, 1036-1043.	2.8	21
13	Fractal Silver Dendrites as 3D SERS Platform for Highly Sensitive Detection of Biomolecules in Hydration Conditions. <i>Nanomaterials</i> , 2019, 9, 1630.	4.1	23
14	Triggering molecular assembly at the mesoscale for advanced Raman detection of proteins in liquid. <i>Scientific Reports</i> , 2018, 8, 1033.	3.3	13
15	New Generation of Ultrasensitive Label-Free Optical Si Nanowire-Based Biosensors. <i>ACS Photonics</i> , 2018, 5, 471-479.	6.6	43
16	Low cost tips for tip-enhanced Raman spectroscopy fabricated by two-step electrochemical etching of 125 Åm diameter gold wires. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 2718-2729.	2.8	13
17	Optical Aggregation of Gold Nanoparticles for SERS Detection of Proteins and Toxins in Liquid Environment: Towards Ultrasensitive and Selective Detection. <i>Materials</i> , 2018, 11, 440.	2.9	42
18	Structural differences between toxic and nontoxic HypF-N oligomers. <i>Chemical Communications</i> , 2018, 54, 8637-8640.	4.1	25

#	ARTICLE	IF	CITATIONS
19	Nanoscale Discrimination between Toxic and Nontoxic Protein Misfolded Oligomers with Tip-Enhanced Raman Spectroscopy. <i>Small</i> , 2018, 14, e1800890.	10.0	35
20	Coherent backscattering of Raman light. <i>Nature Photonics</i> , 2017, 11, 170-176.	31.4	44
21	Light-emitting silicon nanowires obtained by metal-assisted chemical etching. <i>Semiconductor Science and Technology</i> , 2017, 32, 043004.	2.0	39
22	Strongly enhanced light trapping in a two-dimensional silicon nanowire random fractal array. <i>Light: Science and Applications</i> , 2016, 5, e16062-e16062.	16.6	97
23	Functionalization of silicon nanowire arrays by silver nanoparticles for the laser desorption ionization mass spectrometry analysis of vegetable oils. <i>Journal of Mass Spectrometry</i> , 2016, 51, 849-856.	1.6	19
24	Double-Wall Nanotubes and Graphene Nanoplatelets for Hybrid Conductive Adhesives with Enhanced Thermal and Electrical Conductivity. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 23244-23259.	8.0	63
25	Decoration of silicon nanowires with silver nanoparticles for ultrasensitive surface enhanced Raman scattering. <i>Nanotechnology</i> , 2016, 27, 375603.	2.6	33
26	SERS detection of Biomolecules at Physiological pH via aggregation of Gold Nanorods mediated by Optical Forces and Plasmonic Heating. <i>Scientific Reports</i> , 2016, 6, 26952.	3.3	141
27	Silicon nanowire and carbon nanotube hybrid for room temperature multiwavelength light source. <i>Scientific Reports</i> , 2015, 5, 16753.	3.3	26
28	On the SERS depolarization ratio. <i>Nanospectroscopy</i> , 2015, 1, .	0.7	6
29	Metal Nanoparticles Deposited on Porous Silicon Templates as Novel Substrates for SERS. <i>Croatica Chemica Acta</i> , 2015, 88, 437-444.	0.4	17
30	High Sensitivity, High Selectivity SERS Detection of MnSOD Using Optical Nanoantennas Functionalized with Aptamers. <i>Journal of Physical Chemistry C</i> , 2015, 119, 15532-15540.	3.1	68
31	Optical trapping of silver nanoplatelets. <i>Optics Express</i> , 2015, 23, 8720.	3.4	23
32	Silicon nanowires: synthesis, optical properties and applications. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2014, 11, 1622-1625.	0.8	5
33	Gold Dimer Nanoantenna with Slanted Gap for Tunable LSPR and Improved SERS. <i>Journal of Physical Chemistry C</i> , 2014, 118, 3209-3219.	3.1	92
34	SERS Enhancement and Field Confinement in Nanosensors Based on Self-Organized Gold Nanowires Produced by Ion-Beam Sputtering. <i>Journal of Physical Chemistry C</i> , 2014, 118, 8571-8580.	3.1	51
35	A Shape-Engineered Surface-Enhanced Raman Scattering Optical Fiber Sensor Working from the Visible to the Near-Infrared. <i>Plasmonics</i> , 2013, 8, 13-23.	3.4	36
36	Optical Nanoantennas for Multiband Surface-Enhanced Infrared and Raman Spectroscopy. <i>ACS Nano</i> , 2013, 7, 3522-3531.	14.6	201

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37	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. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2012, 113, 2490-2498.	2.3	31
38	Raman and IR spectroscopy of manganese superoxide dismutase, a pathology biomarker. <i>Vibrational Spectroscopy</i> , 2012, 62, 50-58.	2.2	25
39	Manipulation and Raman Spectroscopy with Optically Trapped Metal Nanoparticles Obtained by Pulsed Laser Ablation in Liquids. <i>Journal of Physical Chemistry C</i> , 2011, 115, 5115-5122.	3.1	65
40	Re-radiation Enhancement in Polarized Surface-Enhanced Resonant Raman Scattering of Randomly Oriented Molecules on Self-Organized Gold Nanowires. <i>ACS Nano</i> , 2011, 5, 5945-5956.	14.6	94
41	Metal-decorated silicon nanowires for laser desorption-ionization mass spectrometry. <i>SPIE Newsroom</i> , 0, , .	0.1	4