

Laura Fabris

List of Publications by Year in descending order

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66
papers

5,583
citations

159585

30
h-index

138484

58
g-index

72
all docs

72
docs citations

72
times ranked

7637
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	A Review on Surface-Enhanced Raman Scattering. Biosensors, 2019, 9, 57.	4.7	545
3	Gold nanostar substrates for SERS-based chemical sensing in the femtomolar regime. Nanoscale, 2014, 6, 8891-8899.	5.6	219
4	Growth Mechanism of Gold Nanorods. Chemistry of Materials, 2013, 25, 555-563.	6.7	186
5	Nanopolystyrene translocation and fetal deposition after acute lung exposure during late-stage pregnancy. Particle and Fibre Toxicology, 2020, 17, 55.	6.2	181
6	Generalized Approach to SERS-Active Nanomaterials via Controlled Nanoparticle Linking, Polymer Encapsulation, and Small-Molecule Infusion. Journal of Physical Chemistry C, 2009, 113, 13622-13629.	3.1	160
7	Coordination Geometry and Oxidation State Requirements of Corner-Sharing MnO ₆ Octahedra for Water Oxidation Catalysis: An Investigation of Manganite (I ³ -MnOOH). ACS Catalysis, 2016, 6, 2089-2099.	11.2	156
8	A Heterogeneous PNA-Based SERS Method for DNA Detection. Journal of the American Chemical Society, 2007, 129, 6086-6087.	13.7	134
9	Multiplex optical sensing with surface-enhanced Raman scattering: A critical review. Analytica Chimica Acta, 2012, 745, 10-23.	5.4	130
10	Gold Nanoclusters Protected by Conformationally Constrained Peptides. Journal of the American Chemical Society, 2006, 128, 326-336.	13.7	125
11	Dimeric Gold Nanoparticle Assemblies as Tags for SERS-Based Cancer Detection. Advanced Healthcare Materials, 2013, 2, 1370-1376.	7.6	91
12	Multiparametric Assessment of Gold Nanoparticle Cytotoxicity in Cancerous and Healthy Cells: The Role of Size, Shape, and Surface Chemistry. Bioconjugate Chemistry, 2017, 28, 449-460.	3.6	90
13	Understanding the role of AgNO ₃ concentration and seed morphology in the achievement of tunable shape control in gold nanostars. Nanoscale, 2019, 11, 2946-2958.	5.6	87
14	SERS Aptatags: New Responsive Metallic Nanostructures for Heterogeneous Protein Detection by Surface Enhanced Raman Spectroscopy. Advanced Functional Materials, 2008, 18, 2518-2525.	14.9	81
15	SERS Tags: The Next Promising Tool for Personalized Cancer Detection?. ChemNanoMat, 2016, 2, 249-258.	2.8	81
16	Ligand Exchange on Gold Nanorods: Going Back to the Future. Particle and Particle Systems Characterization, 2014, 31, 819-838.	2.3	77
17	Gold-based SERS tags for biomedical imaging. Journal of Optics (United Kingdom), 2015, 17, 114002.	2.2	70
18	TiO ₂ on Gold Nanostars Enhances Photocatalytic Water Reduction in the Near-Infrared Regime. Chem, 2018, 4, 2140-2153.	11.7	70

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19	Submolecular control, spectroscopy and imaging of bond-selective chemistry in single functionalized molecules. <i>Nature Chemistry</i> , 2013, 5, 36-41.	13.6	68
20	Shaping Gold Nanostar Electric Fields for Surface-Enhanced Raman Spectroscopy Enhancement via Silica Coating and Selective Etching. <i>Journal of Physical Chemistry C</i> , 2016, 120, 20749-20758.	3.1	66
21	Effect of Peptide Ligand Dipole Moments on the Redox Potentials of Au ₃₈ and Au ₁₄₀ Nanoparticles. <i>Langmuir</i> , 2006, 22, 10584-10589.	3.5	63
22	Plasmonic properties of regiospecific core-satellite assemblies of gold nanostars and nanospheres. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 21133-21142.	2.8	51
23	Aptatag-Based Multiplexed Assay for Protein Detection by Surface-Enhanced Raman Spectroscopy. <i>Small</i> , 2010, 6, 1550-1557.	10.0	48
24	SERS-Based Quantification of Biomarker Expression at the Single Cell Level Enabled by Gold Nanostars and Truncated Aptamers. <i>Bioconjugate Chemistry</i> , 2018, 29, 2970-2981.	3.6	48
25	A closer look at the physical and optical properties of gold nanostars: an experimental and computational study. <i>Nanoscale</i> , 2017, 9, 3766-3773.	5.6	47
26	Anti-tags: Nanostructured Tools for Developing SERS-Based ELISA Analogs. <i>Advanced Materials</i> , 2010, 22, 4954-4958.	21.0	44
27	Time-Dependent Susceptibility of the Growth of Gold Nanorods to the Addition of a Cosurfactant. <i>Chemistry of Materials</i> , 2013, 25, 4772-4780.	6.7	36
28	Theory of hot electrons: general discussion. <i>Faraday Discussions</i> , 2019, 214, 245-281.	3.2	34
29	Gold Nanostars in Biology and Medicine: Understanding Physicochemical Properties to Broaden Applicability. <i>Journal of Physical Chemistry C</i> , 2020, 124, 26540-26553.	3.1	34
30	Rapid SERS Quantification of Trace Fentanyl Laced in Recreational Drugs with a Portable Raman Module. <i>Analytical Chemistry</i> , 2021, 93, 9373-9382.	6.5	34
31	Colloidal plasmonic nanostar antennas with wide range resonance tunability. <i>Nanoscale</i> , 2019, 11, 18662-18671.	5.6	31
32	SERS Nanoprobe for Intracellular Monitoring of Viral Mutations. <i>Journal of Physical Chemistry C</i> , 2020, 124, 3211-3217.	3.1	31
33	Au/SBA-15-Based Robust and Convenient-to-Use Nanopowder Material for Surface-Enhanced Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2011, 115, 22810-22817.	3.1	28
34	Gold nanorod enhanced organic photovoltaics: The importance of morphology effects. <i>Organic Electronics</i> , 2014, 15, 1448-1457.	2.6	25
35	High Sensitivity Surface-Enhanced Raman Scattering in Solution Using Engineered Silver Nanosphere Dimers. <i>Journal of Physical Chemistry C</i> , 2011, 115, 15900-15907.	3.1	20
36	Carboxy-terminated immuno-SERS tags overcome non-specific aggregation for the robust detection and localization of organic media in artworks. <i>Analyst, The</i> , 2015, 140, 5971-5980.	3.5	18

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37	Bottom-up optimization of SERS hot-spots. <i>Chemical Communications</i> , 2012, 48, 9346.	4.1	17
38	Effect of Gestational Age on Maternofetal Vascular Function Following Single Maternal Engineered Nanoparticle Exposure. <i>Cardiovascular Toxicology</i> , 2019, 19, 321-333.	2.7	17
39	Enhancing hot electron generation and injection in the near infrared via rational design and controlled synthesis of TiO ₂ –gold nanostructures. <i>Faraday Discussions</i> , 2019, 214, 341-351.	3.2	16
40	Interface and Bulk Standing Waves Drive the Coupling of Plasmonic Nanostar Antennas. <i>Journal of Physical Chemistry C</i> , 2018, 122, 28949-28957.	3.1	14
41	Surface-Enhanced Raman Spectroscopy: Principles, Substrates, and Applications. , 2018, , 89-164.		13
42	SERS-Based Quantification of PSMA in Tissue Microarrays Allows Effective Stratification of Patients with Prostate Cancer. <i>ACS Omega</i> , 2018, 3, 16784-16794.	3.5	13
43	Identification and quantification of gold engineered nanomaterials and impaired fluid transfer across the rat placenta via ex vivo perfusion. <i>Biomedicine and Pharmacotherapy</i> , 2019, 117, 109148.	5.6	13
44	Impact of Protein Corona in Nanoflare-Based Biomolecular Detection and Quantification. <i>Bioconjugate Chemistry</i> , 2019, 30, 2555-2562.	3.6	13
45	SERS-based approaches toward genetic profiling. <i>Bioanalysis</i> , 2015, 7, 263-278.	1.5	12
46	Highly Tunable Growth and Etching of Silica Shells on Surfactant-Free Gold Nanostars. <i>ChemNanoMat</i> , 2020, 6, 53-57.	2.8	12
47	Understanding nanoparticle assembly: A simulation approach to SERS-active dimers. <i>Journal of Colloid and Interface Science</i> , 2012, 369, 134-143.	9.4	9
48	Applications of melting gels. <i>Journal of Sol-Gel Science and Technology</i> , 2019, 89, 66-77.	2.4	9
49	New materials for hot electron generation: general discussion. <i>Faraday Discussions</i> , 2019, 214, 365-386.	3.2	9
50	Short- and longer-term predictive capacity of the Multidimensional Prognostic Index: The timing of the assessment is of no consequence. <i>Archives of Gerontology and Geriatrics</i> , 2015, 61, 458-463.	3.0	6
51	Gold nanoparticles in melting gels. <i>Journal of Sol-Gel Science and Technology</i> , 2019, 91, 189-197.	2.4	6
52	Gold Nanowire and Nanorod Plasmonic Mechanisms for Increasing Ultra-Thin Organic Photovoltaic Active Layer Absorption. <i>Plasmonics</i> , 2014, 9, 1283-1301.	3.4	5
53	Applications in catalysis, photochemistry, and photodetection: general discussion. <i>Faraday Discussions</i> , 2019, 214, 479-499.	3.2	5
54	Quantifying and optimizing photocurrent via optical modeling of gold nanostar-, nanorod-, and dimer-decorated MoS ₂ and MoTe ₂ . <i>Journal of Chemical Physics</i> , 2020, 152, 014705.	3.0	5

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55	Improved Precision in Surface-Enhanced Raman Scattering Quantification of Analyte through Dual-Modality Multisite Sensing. <i>Analytical Chemistry</i> , 2019, 91, 4323-4330.	6.5	4
56	Multipolar and bulk modes: fundamentals of single-particle plasmonics through the advances in electron and photon techniques. <i>Nanophotonics</i> , 2020, 9, 4433-4446.	6.0	3
57	Development of coronary dysfunction in adult progeny after maternal engineered nanomaterial inhalation during gestation. <i>Scientific Reports</i> , 2021, 11, 19374.	3.3	2
58	Controlled dispersion of polystyrene-capped Au nanoparticles in P3HT:PCBM and consequences upon active layer nanostructure. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016, 54, 709-720.	2.1	1
59	Bioconjugation strategies toward efficient intracellular nanoparticle probes. , 2021, , .		1
60	Noble Metal Nanoparticles as SERS Tags: Fundamentals and Biomedical Applications. , 2016, , 67-101.		0
61	Understanding and detecting viruses with surface-enhanced Raman Spectroscopy. , 2021, , .		0
62	(Invited) Controlling Synthesis and Functionalization of Anisotropic Gold Nanoparticles for Applications in Biology. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 913-913.	0.0	0
63	Gold Nanostar Assays for Oncology and Virology. <i>Journal of Self-Assembly and Molecular Electronics (SAME)</i> , 2018, 6, 1-1.	0.0	0
64	A new paradigm for gold nanostars: synthesis, characterization, modeling, and biomedical applications (Conference Presentation). , 2018, , .		0
65	(Invited) Understanding the Role of Protein Corona on Oligonucleotide Recognition Efficiency in Fluorescent Flares. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 1094-1094.	0.0	0
66	SERS Biosensors. , 2022, , 81-123.		0