Rohit Chikkaraddy

List of Publications by Year
in descending order

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		236833	143943
63	4,452	25	57
papers	citations	h-index	g-index

67	67	67	4553
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Single-molecule strong coupling at room temperature in plasmonic nanocavities. Nature, 2016, 535, 127-130.	13.7	1,391
2	Single-molecule optomechanics in â€œpicocavitiesâ€• Science, 2016, 354, 726-729.	6.0	607
3	Strong-coupling of WSe2 in ultra-compact plasmonic nanocavities at room temperature. Nature Communications, 2017, 8, 1296.	5.8	290
4	SERS of Individual Nanoparticles on a Mirror: Size Does Matter, but so Does Shape. Journal of Physical Chemistry Letters, 2016, 7, 2264-2269.	2.1	163
5	Plasmofluidic single-molecule surface-enhanced Raman scattering from dynamic assembly of plasmonic nanoparticles. Nature Communications, 2014, 5, 4357.	5.8	145
6	Suppressed Quenching and Strong-Coupling of Purcell-Enhanced Single-Molecule Emission in Plasmonic Nanocavities. ACS Photonics, 2018, 5, 186-191.	3.2	137
7	Mapping Nanoscale Hotspots with Single-Molecule Emitters Assembled into Plasmonic Nanocavities Using DNA Origami. Nano Letters, 2018, 18, 405-411.	4.5	126
8	How Light Is Emitted by Plasmonic Metals. Nano Letters, 2017, 17, 2568-2574.	4.5	125
9	Plasmonic tunnel junctions for single-molecule redox chemistry. Nature Communications, 2017, 8, 994.	5.8	116
10	How Ultranarrow Gap Symmetries Control Plasmonic Nanocavity Modes: From Cubes to Spheres in the Nanoparticle-on-Mirror. ACS Photonics, 2017, 4, 469-475.	3.2	115
11	Quantum electrodynamics at room temperature coupling a single vibrating molecule with a plasmonic nanocavity. Nature Communications, 2019, 10, 1049.	5.8	114
12	Room-Temperature Optical Picocavities below 1 nm³ Accessing Single-Atom Geometries. Journal of Physical Chemistry Letters, 2018, 9, 7146-7151.	2.1	88
13	Thermoâ€Responsive Actuation of a DNA Origami Flexor. Advanced Functional Materials, 2018, 28, 1706410.	7.8	71
14	Generalized circuit model for coupled plasmonic systems. Optics Express, 2015, 23, 33255.	1.7	62
15	Detecting mid-infrared light by molecular frequency upconversion in dual-wavelength nanoantennas. Science, 2021, 374, 1268-1271.	6.0	61
16	Anomalous Spectral Shift of Near- and Far-Field Plasmonic Resonances in Nanogaps. ACS Photonics, 2016, 3, 471-477.	3.2	53
17	Plasmonic Nanocavity Modes: From Near-Field to Far-Field Radiation. ACS Photonics, 2020, 7, 463-471.	3.2	53
18	Unfolding the contents of sub-nm plasmonic gaps using normalising plasmon resonance spectroscopy. Faraday Discussions, 2015, 178, 185-193.	1.6	52

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19	Eliminating irreproducibility in SERS substrates. Journal of Raman Spectroscopy, 2021, 52, 412-419.	1.2	42
20	Controlling Optically Driven Atomic Migration Using Crystal-Facet Control in Plasmonic Nanocavities. ACS Nano, 2020, 14, 10562-10568.	7.3	34
21	Revealing Nanostructures through Plasmon Polarimetry. ACS Nano, 2017, 11, 850-855.	7.3	33
22	Microcavity-like exciton-polaritons can be the primary photoexcitation in bare organic semiconductors. Nature Communications, 2021, 12, 6519.	5.8	32
23	Interfering Plasmons in Coupled Nanoresonators to Boost Light Localization and SERS. Nano Letters, 2021, 21, 2512-2518.	4.5	31
24	Flickering nanometre-scale disorder in a crystal lattice tracked by plasmonic flare light emission. Nature Communications, 2020, 11, 682.	5.8	28
25	Theory of SERS enhancement: general discussion. Faraday Discussions, 2017, 205, 173-211.	1.6	27
26	Inhibiting Analyte Theft in Surface-Enhanced Raman Spectroscopy Substrates: Subnanomolar Quantitative Drug Detection. ACS Sensors, 2019, 4, 2988-2996.	4.0	27
27	Cascaded nanooptics to probe microsecond atomic-scale phenomena. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 14819-14826.	3.3	27
28	Plasmon assisted light propagation and Raman scattering hot-spot in end-to-end coupled silver nanowire pairs. Applied Physics Letters, 2012, 100, .	1.5	25
29	Nanoscopy through a plasmonic nanolens. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 2275-2281.	3.3	24
30	Mapping SERS in CB:Au Plasmonic Nanoaggregates. ACS Photonics, 2017, 4, 2681-2686.	3.2	23
31	SERS in biology/biomedical SERS: general discussion. Faraday Discussions, 2017, 205, 429-456.	1.6	22
32	Smart supramolecular sensing with cucurbit[n]urils: probing hydrogen bonding with SERS. Faraday Discussions, 2017, 205, 505-515.	1.6	20
33	FullyPrinted Flexible Plasmonic Metafilms with Directional Color Dynamics. Advanced Science, 2021, 8, 2002419.	5.6	20
34	Efficient Generation of Two-Photon Excited Phosphorescence from Molecules in Plasmonic Nanocavities. Nano Letters, 2020, 20, 4653-4658.	4.5	19
35	Mid-infrared-perturbed molecular vibrational signatures in plasmonic nanocavities. Light: Science and Applications, 2022, 11, 19.	7.7	18
36	Locating Single-Atom Optical Picocavities Using Wavelength-Multiplexed Raman Scattering. ACS Photonics, 2021, 8, 2868-2875.	3.2	17

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37	Resolving sub-angstrom ambient motion through reconstruction from vibrational spectra. Nature Communications, 2021, 12, 6759.	5.8	17
38	Interrogating Nanojunctions Using Ultraconfined Acoustoplasmonic Coupling. Physical Review Letters, 2017, 119, 023901.	2.9	16
39	Nanoparticle surfactants for kinetically arrested photoactive assemblies to track light-induced electron transfer. Nature Nanotechnology, 2021, 16, 1121-1129.	15.6	16
40	Breaking the Selection Rules of Spin-Forbidden Molecular Absorption in Plasmonic Nanocavities. ACS Photonics, 2020, 7, 2337-2342.	3.2	15
41	Microsphere-coupled organic waveguides: Preparation, remote excitation of whispering gallery modes and waveguiding property. Applied Physics Letters, 2013, 103, .	1.5	14
42	Analytical SERS: general discussion. Faraday Discussions, 2017, 205, 561-600.	1.6	14
43	Plasmon-Induced Trap State Emission from Single Quantum Dots. Physical Review Letters, 2021, 126, 047402.	2.9	14
44	Fluorescence enhancement and strong-coupling in faceted plasmonic nanocavities. EPJ Applied Metamaterials, 2018, 5, 6.	0.8	12
45	Ultrasensitive and towards single molecule SERS: general discussion. Faraday Discussions, 2017, 205, 291-330.	1.6	11
46	A highly stable, nanotube-enhanced, CMOS-MEMS thermal emitter for mid-IR gas sensing. Scientific Reports, 2021, 11, 22915.	1.6	11
47	Optics of an individual organic molecular mesowire waveguide: directional light emission and anomalous refractive index. Journal of Optics (United Kingdom), 2016, 18, 065002.	1.0	10
48	Large-scale dynamic assembly of metal nanostructures in plasmofluidic field. Faraday Discussions, 2016, 186, 95-106.	1.6	10
49	Accessing Plasmonic Hotspots Using Nanoparticle-on-Foil Constructs. ACS Photonics, 2021, 8, 2811-2817.	3.2	10
50	Dynamics of deterministically positioned singleâ€bond surfaceâ€enhanced Raman scattering from DNA origami assembled in plasmonic nanogaps. Journal of Raman Spectroscopy, 2021, 52, 348-354.	1.2	8
51	Plasmon-controlled excitonic emission from vertically-tapered organic nanowires. Nanoscale, 2016, 8, 14803-14808.	2.8	7
52	Directional exciton-polariton photoluminescence emission from terminals of a microsphere-coupled organic waveguide. Applied Physics Letters, 2016, 108, .	1.5	7
53	Near-Field Optical Drilling of Sub-Î» Pits in Thin Polymer Films. ACS Photonics, 2017, 4, 1292-1297.	3.2	7
54	Radiative Channeling of Nanowire Frenkel Exciton Polaritons through Surface Plasmons. Advanced Optical Materials, 2017, 5, 1600873.	3.6	4

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55	Polarisation-selective hotspots in metallic ring stack arrays. Optics Express, 2016, 24, 3663.	1.7	3
56	Out-of-Plane Nanoscale Reorganization of Lipid Molecules and Nanoparticles Revealed by Plasmonic Spectroscopy. Journal of Physical Chemistry Letters, 2020, 11, 2875-2882.	2.1	3
57	Nanometer control in plasmonic systems through discrete layer-by-layer macrocycleâ€“cation deposition. Nanoscale, 2020, 12, 8706-8710.	2.8	2
58	Molecules in plasmonic nano-cavities. , 2017, , .		0
59	Suppression of fluorescence quenching and strong-coupling in plasmonic nanocavities. , 2017, , .		0
60	Dynamic Nanoscale Reorganization of Lipid Molecules and Nanoparticles Revealed by Plasmonic GAP Resonance Spectroscopy. Biophysical Journal, 2020, 118, 87a.	0.2	0
61	Molecular Optomechanical Springs for Infrared Metasurface Detectors. , 2021, , .		0
62	Molecular optomechanical springs for infrared metasurface detectors. , 2021, , .		0
63	Plasmonic constructs that mix mid-infrared photonics to visible nanogap resonators. , 2020, , .		0