

Sumeet Mahajan

List of Publications by Year in descending order

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118
papers

5,329
citations

81434

41
h-index

100535

70
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124
all docs

124
docs citations

124
times ranked

8865
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-Excitation Raman Spectroscopy for Label-Free, Strain-Level Characterization of Bacterial Pathogens in Artificial Sputum Media. <i>Analytical Chemistry</i> , 2022, 94, 669-677.	3.2	13
2	Raman Scattering Techniques for Defense and Security Applications. <i>Analytical Chemistry</i> , 2021, 93, 417-429.	3.2	13
3	Widely-tunable synchronisation-free picosecond laser source for multimodal CARS, SHG, and two-photon microscopy. <i>Biomedical Optics Express</i> , 2021, 12, 1010.	1.5	8
4	Conformational fingerprinting of tau variants and strains by Raman spectroscopy. <i>RSC Advances</i> , 2021, 11, 8899-8915.	1.7	15
5	Multiscale molecular profiling of pathological bone resolves sexually dimorphic control of extracellular matrix composition. <i>DMM Disease Models and Mechanisms</i> , 2021, 14, .	1.2	4
6	Selective Imaging of Microplastic and Organic Particles in Flow by Multimodal Coherent Anti-Stokes Raman Scattering and Two-Photon Excited Autofluorescence Analysis. <i>Analytical Chemistry</i> , 2021, 93, 5234-5240.	3.2	15
7	Superresolved polarization-enhanced second-harmonic generation for direct imaging of nanoscale changes in collagen architecture. <i>Optica</i> , 2021, 8, 674.	4.8	15
8	Optical nonlinearities in chemically synthesized and femtosecond laser fabricated gold nanoparticle colloidal solutions. <i>Optics and Laser Technology</i> , 2021, 139, 107008.	2.2	30
9	A versatile, low cost light source module for multiphoton imaging. , 2021, , .		1
10	Antibiotic-Loaded Polymersomes for Clearance of Intracellular <i>Burkholderia thailandensis</i> . <i>ACS Nano</i> , 2021, 15, 19284-19297.	7.3	10
11	A synchronisation free, versatile Optical Parametric Amplifier as a low cost light source for multiphoton imaging.. , 2021, , .		0
12	High-power, high-efficiency, all-fiberized-laser-pumped, 260-nm, deep-UV laser for bacterial deactivation. <i>Optics Express</i> , 2021, 29, 42485.	1.7	12
13	Serum Raman spectroscopy as a diagnostic tool in patients with Huntington's disease. <i>Chemical Science</i> , 2020, 11, 525-533.	3.7	35
14	Raman spectroscopy links differentiating osteoblast matrix signatures to pro-angiogenic potential. <i>Matrix Biology Plus</i> , 2020, 5, 100018.	1.9	9
15	Multimodal spectral focusing CARS and SFG microscopy with a tailored coherent continuum from a microstructured fiber. <i>Applied Physics B: Lasers and Optics</i> , 2020, 126, 1.	1.1	21
16	Identification of microplastics in a large water volume by integrated holography and Raman spectroscopy. <i>Applied Optics</i> , 2020, 59, 5073.	0.9	31
17	Ge on Si waveguide mid-infrared absorption spectroscopy of proteins and their aggregates. <i>Biomedical Optics Express</i> , 2020, 11, 4714.	1.5	11
18	Regulation of the Bone Vascular Network is Sexually Dimorphic. <i>Journal of Bone and Mineral Research</i> , 2019, 34, 2117-2132.	3.1	19

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19	Conformational Evolution of Molecular Signatures during Amyloidogenic Protein Aggregation. ACS Chemical Neuroscience, 2019, 10, 4593-4611.	1.7	19
20	Tuneable Metamaterial-like Platforms for Surface-Enhanced Raman Scattering via Three-Dimensional Block Co-polymer-Based Nanoarchitectures. ACS Applied Materials & Interfaces, 2019, 11, 14437-14444.	4.0	19
21	Live-imaging of Bioengineered Cartilage Tissue using Multimodal Non-linear Molecular Imaging. Scientific Reports, 2019, 9, 5561.	1.6	15
22	Comparison of SC Fibers for fs Ti:Sapphire Based Hyperspectral CARS Microscopy. , 2019, , .		0
23	Raman Spectroscopy: An Emerging Tool in Neurodegenerative Disease Research and Diagnosis. ACS Chemical Neuroscience, 2018, 9, 404-420.	1.7	140
24	Tuning plasmons layer-by-layer for quantitative colloidal sensing with surface-enhanced Raman spectroscopy. Nanoscale, 2018, 10, 7138-7146.	2.8	16
25	Quantitative temporal interrogation in 3D of bioengineered human cartilage using multimodal label-free imaging. Integrative Biology (United Kingdom), 2018, 10, 635-645.	0.6	7
26	Nanoscale dysregulation of collagen structure-function disrupts mechano-homeostasis and mediates pulmonary fibrosis. ELife, 2018, 7, .	2.8	99
27	Optimising superoscillatory spots for far-field super-resolution imaging. Optics Express, 2018, 26, 8095.	1.7	43
28	Optical fibre-tip probes for SERS: numerical study for design considerations. Optics Express, 2018, 26, 15539.	1.7	19
29	Hepatic Steatosis Accompanies Pulmonary Alveolar Proteinosis. American Journal of Respiratory Cell and Molecular Biology, 2017, 57, 448-458.	1.4	12
30	Detection of early osteogenic commitment in primary cells using Raman spectroscopy. Analyst, The, 2017, 142, 1962-1973.	1.7	22
31	Coherent anti-Stokes Raman scattering (CARS) spectroscopy in <i>Caenorhabditis elegans</i> and <i>Globodera pallida</i> : evidence for an ivermectin-activated decrease in lipid stores. Pest Management Science, 2017, 73, 2550-2558.	1.7	8
32	Ultrasensitive and towards single molecule SERS: general discussion. Faraday Discussions, 2017, 205, 291-330.	1.6	11
33	SERS in biology/biomedical SERS: general discussion. Faraday Discussions, 2017, 205, 429-456.	1.6	22
34	Analytical SERS: general discussion. Faraday Discussions, 2017, 205, 561-600.	1.6	14
35	Theory of SERS enhancement: general discussion. Faraday Discussions, 2017, 205, 173-211.	1.6	27
36	What do we actually see in intracellular SERS? Investigating nanosensor-induced variation. Faraday Discussions, 2017, 205, 409-428.	1.6	8

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37	The histone deacetylase inhibitor, romidepsin, as a potential treatment for pulmonary fibrosis. <i>Oncotarget</i> , 2017, 8, 48737-48754.	0.8	48
38	Raman spectroscopy and coherent anti-Stokes Raman scattering imaging: prospective tools for monitoring skeletal cells and skeletal regeneration. <i>Journal of the Royal Society Interface</i> , 2016, 13, 20160182.	1.5	41
39	Optimizing SERS from Gold Nanoparticle Clusters: Addressing the Near Field by an Embedded Chain Plasmon Model. <i>Journal of Physical Chemistry C</i> , 2016, 120, 10512-10522.	1.5	46
40	Nanoparticles and intracellular applications of surface-enhanced Raman spectroscopy. <i>Analyst</i> , The, 2016, 141, 5037-5055.	1.7	86
41	Observing Single Molecules Complexing with Cucurbit[7]uril through Nanogap Surface-Enhanced Raman Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 704-710.	2.1	73
42	Characterization and Visualization of Vesicles in the Endo-Lysosomal Pathway with Surface-Enhanced Raman Spectroscopy and Chemometrics. <i>ACS Nano</i> , 2016, 10, 307-316.	7.3	84
43	Rescue from tau-induced neuronal dysfunction produces insoluble tau oligomers. <i>Scientific Reports</i> , 2015, 5, 17191.	1.6	42
44	Single Nanoparticle-Based Heteronanojunction as a Plasmon Ruler for Measuring Dielectric Thin Films. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 2282-2286.	2.1	17
45	Standing-wave-excited multiplexed fluorescence in a laser scanning microscope reveals 3D information on red blood cells. <i>Scientific Reports</i> , 2015, 4, 7359.	1.6	10
46	Standing-wave excitation of fluorescence in a laser-scanning microscope allows precise contour mapping of the red blood cell membrane. <i>Proceedings of SPIE</i> , 2015, , .	0.8	0
47	Surfactant protein A (SP-A) inhibits agglomeration and macrophage uptake of toxic amine modified nanoparticles. <i>Nanotoxicology</i> , 2015, 9, 952-962.	1.6	28
48	Visualizing Electromagnetic Fields at the Nanoscale by Single Molecule Localization. <i>Nano Letters</i> , 2015, 15, 3217-3223.	4.5	15
49	Tracking adipogenic differentiation of skeletal stem cells by label-free chemically selective imaging. <i>Chemical Science</i> , 2015, 6, 7089-7096.	3.7	20
50	Investigating biomechanical noise in neuroblastoma cells using the quartz crystal microbalance. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20141389.	1.5	1
51	Visualisation of plasmonic fields at the nanoscale with single molecule localisation microscopy. <i>Proceedings of SPIE</i> , 2015, , .	0.8	0
52	Surfactant-free coating of thiols on gold nanoparticles using sonochemistry: A study of competing processes. <i>Ultrasonics Sonochemistry</i> , 2014, 21, 1886-1892.	3.8	8
53	Single Nanoparticle SERS Probes of Ion Intercalation in Metal-Oxide Electrodes. <i>Nano Letters</i> , 2014, 14, 495-498.	4.5	51
54	Gold nanoparticles explore cells: Cellular uptake and their use as intracellular probes. <i>Methods</i> , 2014, 68, 354-363.	1.9	62

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55	CARS based label-free assay for assessment of drugs by monitoring lipid droplets in tumour cells. Journal of Biophotonics, 2014, 7, 906-913.	1.1	25
56	Reproducible Deep-UV SERRS on Aluminum Nanovoids. Journal of Physical Chemistry Letters, 2013, 4, 1449-1452.	2.1	101
57	Interaction of metallic nanoparticles with dielectric substrates: effect of optical constants. Nanotechnology, 2013, 24, 035201.	1.3	50
58	Near-Field Plasmonics of an Individual Dielectric Nanoparticle above a Metallic Substrate. Journal of Physical Chemistry C, 2013, 117, 7784-7790.	1.5	53
59	Wavelength modulated surface enhanced (resonance) Raman scattering for background-free detection. Analyst, The, 2013, 138, 2816.	1.7	8
60	Single molecule SERS and detection of biomolecules with a single gold nanoparticle on a mirror junction. Analyst, The, 2013, 138, 4574.	1.7	115
61	Intracellular SERS Nanoprobes For Distinction Of Different Neuronal Cell Types. Nano Letters, 2013, 13, 2463-2470.	4.5	140
62	In Situ SERS Monitoring of Photochemistry within a Nanojunction Reactor. Nano Letters, 2013, 13, 5985-5990.	4.5	85
63	Tunable Microstructured Surface-Enhanced Raman Scattering Substrates via Electrohydrodynamic Lithography. Journal of Physical Chemistry Letters, 2013, 4, 4153-4159.	2.1	23
64	Mapping gigahertz vibrations in a plasmonic-phononic crystal. New Journal of Physics, 2013, 15, 023013.	1.2	12
65	Near-field optical enhancement by lead-sulfide quantum dots and metallic nanoparticles for SERS. Journal of Raman Spectroscopy, 2013, 44, 1292-1298.	1.2	10
66	Coherent anti-Stokes Raman scattering for label-free biomedical imaging. Journal of Optics (United Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.0	21
67	Molecular imaging with surface-enhanced CARS on nanostructures. Proceedings of SPIE, 2012, , .	0.8	1
68	Disentangling the Peak and Background Signals in Surface-Enhanced Raman Scattering. Journal of Physical Chemistry C, 2012, 116, 6184-6190.	1.5	22
69	Simple Composite Dipole Model for the Optical Modes of Strongly-Coupled Plasmonic Nanoparticle Aggregates. Journal of Physical Chemistry C, 2012, 116, 25044-25051.	1.5	35
70	Increasing the Open-Circuit Voltage of Photoprotein-Based Photoelectrochemical Cells by Manipulation of the Vacuum Potential of the Electrolytes. ACS Nano, 2012, 6, 9103-9109.	7.3	43
71	Optimized Vertical Carbon Nanotube Forests for Multiplex Surface-Enhanced Raman Scattering Detection. Journal of Physical Chemistry Letters, 2012, 3, 3486-3492.	2.1	24
72	Solvent-Resistant Ultraflat Gold Using Liquid Glass. Langmuir, 2012, 28, 1347-1350.	1.6	13

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73	Quantitative SERS Using the Sequestration of Small Molecules Inside Precise Plasmonic Nanoconstructs. Nano Letters, 2012, 12, 5924-5928.	4.5	142
74	Metal Oxide Nanoparticle Mediated Enhanced Raman Scattering and Its Use in Direct Monitoring of Interfacial Chemical Reactions. Nano Letters, 2012, 12, 4242-4246.	4.5	103
75	Direct Visualization of Symmetry Breaking During Janus Nanoparticle Formation. Small, 2012, 8, 2698-2703.	5.2	18
76	Hierarchical Electrohydrodynamic Structures for Surface-Enhanced Raman Scattering. Advanced Materials, 2012, 24, OP175-80, OP174.	11.1	44
77	Hierarchical Electrohydrodynamic Structures for Surface-Enhanced Raman Scattering (Adv. Mater.) Tj ETQq1 1 0.784314 rgBT ₀ /Overlook	11.1	0
78	SERS from two-tier sphere segment void substrates. Physical Chemistry Chemical Physics, 2011, 13, 16661.	1.3	17
79	Precise Subnanometer Plasmonic Junctions for SERS within Gold Nanoparticle Assemblies Using Cucurbit[5]uril. ACS Nano, 2011, 5, 3878-3887.	7.3	322
80	Enhancing solar cells with localized plasmons in nanovoids. Optics Express, 2011, 19, 11256.	1.7	76
81	Surface Enhanced Coherent Anti-Stokes Raman Scattering on Nanostructured Gold Surfaces. Nano Letters, 2011, 11, 5339-5343.	4.5	125
82	Temperature dependence of surface-enhanced Raman scattering on nanostructured plasmonic surfaces. , 2011, , .		0
83	Plasmonic junctions with cucurbit[5]uril ‘glue’: fabrication of precise sub-nm junctions in gold nanoparticle assemblies. , 2011, , .		0
84	Tracking molecular binding to nanostructures using CO ₂ snow jet on plasmonic SERS substrates. , 2011, , .		0
85	Active Plasmon Tuning of Metal-Elastomer Nanostructures. , 2010, , .		0
86	Mimicking the colourful wing scale structure of the Papilio blumei butterfly. Nature Nanotechnology, 2010, 5, 511-515.	15.6	353
87	Raman and SERS spectroscopy of cucurbit[n]urils. Physical Chemistry Chemical Physics, 2010, 12, 10429.	1.3	71
88	Understanding the Surface-Enhanced Raman Spectroscopy ‘Background’. Journal of Physical Chemistry C, 2010, 114, 7242-7250.	1.5	118
89	Improved electrochromic performance in inverse opal vanadium oxide films. Journal of Materials Chemistry, 2010, 20, 7131.	6.7	45
90	Surface-Enhanced Raman Scattering of Semiconducting Quantum Dots on Nanostructured Plasmonic Surfaces. , 2010, , .		0

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91	Nanovoid Plasmonic-Enhanced Low-Cost Photovoltaics. , 2010, , .		0
92	Nanovoid Plasmonic-Enhanced Low-Cost Photovoltaics. , 2010, , .		0
93	Nanostructured Calcite Single Crystals with Gyroid Morphologies. <i>Advanced Materials</i> , 2009, 21, 3928-3932.	11.1	103
94	The Use of an Electroactive Marker as a SERS Label in an <i>E</i> -melting Mutation Discrimination Assay. <i>Electroanalysis</i> , 2009, 21, 2190-2197.	1.5	19
95	EC-AFM investigation of reversible volume changes with electrode potential in polyaniline. <i>Journal of Electroanalytical Chemistry</i> , 2009, 625, 16-26.	1.9	40
96	UV SERS at well ordered Pd sphere segment void (SSV) nanostructures. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 1023-1026.	1.3	42
97	Engineering SERS via absorption control in novel hybrid Ni/Au nanovoids. <i>Optics Express</i> , 2009, 17, 13298.	1.7	30
98	Relating SERS Intensity to Specific Plasmon Modes on Sphere Segment Void Surfaces. <i>Journal of Physical Chemistry C</i> , 2009, 113, 9284-9289.	1.5	83
99	Surface-enhanced Raman spectroscopy of CdSe quantum dots on nanostructured plasmonic surfaces. <i>Applied Physics Letters</i> , 2009, 95, 141111.	1.5	56
100	Stretchable metal-elastomer nanovoids for tunable plasmons. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	43
101	Electrodeposition of highly ordered macroporous iridium oxide through self-assembled colloidal templates. <i>Journal of Materials Chemistry</i> , 2009, 19, 3855.	6.7	51
102	Using nanocavity plasmons to improve solar cell efficiency. , 2009, , .		0
103	SERS-Melting: A New Method for Discriminating Mutations in DNA Sequences. <i>Journal of the American Chemical Society</i> , 2008, 130, 15589-15601.	6.6	165
104	Templated self-assembly and nano-plasmonics of nano-void surfaces. , 2008, , .		0
105	Morphological changes with electrode potential in microtubules and nanowires of Polyaniline: An in-situ EC-AFM study. , 2007, , .		1
106	SERS at Structured Palladium and Platinum Surfaces. <i>Journal of the American Chemical Society</i> , 2007, 129, 7399-7406.	6.6	185
107	Reproducible SERRS from structured gold surfaces. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 6016.	1.3	89
108	Understanding Plasmons in Nanoscale Voids. <i>Nano Letters</i> , 2007, 7, 2094-2100.	4.5	182

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109	Tuning plasmons on nano-structured substrates for NIR-SERS. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 104-109.	1.3	107
110	Immobilization of Antibodies on Polyaniline Films and Its Application in a Piezoelectric Immunosensor. <i>Analytical Chemistry</i> , 2006, 78, 8368-8373.	3.2	66
111	Localized and delocalized plasmons in metallic nanovoids. <i>Physical Review B</i> , 2006, 74, .	1.1	250
112	Easily Coupled Whispering Gallery Plasmons in Dielectric Nanospheres Embedded in Gold Films. <i>Physical Review Letters</i> , 2006, 97, 137401.	2.9	71
113	Simple time weighted average level air-monitoring method for sulfur mustard in work places. <i>Journal of Chromatography A</i> , 2001, 907, 229-234.	1.8	10
114	meso-Aryl sapphyrins with heteroatoms; synthesis, characterization, spectral and electrochemical properties. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1999, , 961-968.	0.9	42
115	Ground and Excited State Dynamics of Core-modified Normal and Expanded Porphyrins. <i>Journal of Porphyrins and Phthalocyanines</i> , 1998, 02, 305-314.	0.4	13
116	Synthesis of meso-substituted core modified expanded porphyrins; effect of acid catalysts on the cyclization. <i>Tetrahedron Letters</i> , 1998, 39, 1961-1964.	0.7	32
117	One pot synthesis of core modified expanded porphyrins. <i>Tetrahedron Letters</i> , 1998, 39, 9249-9252.	0.7	31
118	Development of Unconventional Nano-εMetamaterials from Viral Nano-εBuilding Blocks. <i>Advanced Optical Materials</i> , 0, , 2102784.	3.6	1