

Sebastian Schlä¹/₄cker

List of Publications by Year in descending order

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164
papers

11,057
citations

61857

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30848

102
g-index

187
all docs

187
docs citations

187
times ranked

11547
citing authors

#	ARTICLE	IF	CITATIONS
1	iSERS microscopy: point-of-care diagnosis and tissue imaging. , 2022, , 327-372.		0
2	The role of DNA nanostructures in the catalytic properties of an allosterically regulated protease. Science Advances, 2022, 8, eabk0425.	4.7	16
3	Experimental characterization techniques for plasmon-assisted chemistry. Nature Reviews Chemistry, 2022, 6, 259-274.	13.8	56
4	In Situ Monitoring of Palladium-Catalyzed Chemical Reactions by Nanogap-Enhanced Raman Scattering using Single Pd Cube Dimers. Journal of the American Chemical Society, 2022, 144, 5003-5009.	6.6	22
5	Fundamentals of Nanobiophotonics for Diagnostics and Therapy. , 2022, , 3-39.		0
6	Gold Nanorods Induce Endoplasmic Reticulum Stress and Autocrine Inflammatory Activation in Human Neutrophils. ACS Nano, 2022, 16, 11011-11026.	7.3	2
7	<i>In Situ</i> Photothermal Response of Single Gold Nanoparticles through Hyperspectral Imaging Anti-Stokes Thermometry. ACS Nano, 2021, 15, 2458-2467.	7.3	42
8	Site-specific facet protection of gold nanoparticles inside a 3D DNA origami box: a tool for molecular plasmonics. Chemical Communications, 2021, 57, 3151-3153.	2.2	5
9	Ultraviolet resonance Raman spectroscopy with a continuously tunable picosecond laser: Application to the supramolecular ligand guanidiniocarbonyl pyrrole (GCP). Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 250, 119359.	2.0	5
10	Prospects of ultraviolet resonance Raman spectroscopy in supramolecular chemistry on proteins. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 254, 119622.	2.0	6
11	Origin of the blue-shifted hydrogen bond in the vibrational Raman spectra of pyridine-water complexes: A density functional theory study. Journal of Raman Spectroscopy, 2021, 52, 1722-1734.	1.2	3
12	A fresh look at the structure of aromatic thiols on Au surfaces from theory and experiment. Journal of Chemical Physics, 2021, 155, 044707.	1.2	4
13	Rapid and Sensitive SERS-Based Lateral Flow Test for SARS-CoV2-Specific IgM/IgG Antibodies. Analytical Chemistry, 2021, 93, 12391-12399.	3.2	36
14	Auf dem Weg zur verlässlichen und quantitativen SERS-Spektroskopie: von Schlüsselparametern zur guten analytischen Praxis. Angewandte Chemie, 2020, 132, 5496-5505.	1.6	4
15	Localization of PD-L1 on single cancer cells by iSERS microscopy with Au/Au core/satellite nanoparticles. Journal of Biophotonics, 2020, 13, e201960034.	1.1	15
16	Present and Future of Surface-Enhanced Raman Scattering. ACS Nano, 2020, 14, 28-117.	7.3	2,153
17	Towards Reliable and Quantitative Surface-Enhanced Raman Scattering (SERS): From Key Parameters to Good Analytical Practice. Angewandte Chemie - International Edition, 2020, 59, 5454-5462.	7.2	324
18	Ultrafast time-resolved molecular spectroscopy. , 2020, , 563-594.		4

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19	Comparability of Raman Spectroscopic Configurations: A Large Scale Cross-Laboratory Study. <i>Analytical Chemistry</i> , 2020, 92, 15745-15756.	3.2	46
20	Immuno-SERS: from nanotag design to assays and microscopy. , 2020, , 485-528.		3
21	6-Color/1-Target Immuno-SERS Microscopy on the Same Single Cancer Cell. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 32321-32327.	4.0	15
22	On the Overlooked Critical Role of the pH Value on the Kinetics of the 4-Nitrophenol NaBH ₄ -Reduction Catalyzed by Noble-Metal Nanoparticles (Pt, Pd, and Au). <i>Journal of Physical Chemistry C</i> , 2020, 124, 2939-2944.	1.5	91
23	Rational design of thiolated polyenes as trifunctional Raman reporter molecules in surface-enhanced Raman scattering nanotags for cytokine detection in a lateral flow assay. <i>Journal of Biophotonics</i> , 2020, 13, e201960126.	1.1	9
24	UV resonance Raman spectroscopy of the supramolecular ligand guanidiniocarbonyl indole (GCI) with 244 nm laser excitation. <i>Beilstein Journal of Organic Chemistry</i> , 2020, 16, 2911-2919.	1.3	7
25	Vibrational Spectroscopic Characterization of 2-(2,4-Dinitrobenzyl)-pyridine (±-DNBP) in Solution by Polarization-Resolved Spontaneous Raman Scattering and Broadband CARS. <i>Journal of Physical Chemistry A</i> , 2019, 123, 6291-6297.	1.1	4
26	Plasmonic Effects of Au Nanoparticles on the Vibrational Sum Frequency Spectrum of 4-Nitrothiophenol. <i>Journal of Physical Chemistry C</i> , 2019, 123, 24234-24242.	1.5	11
27	Frontispiz: Schnelle, quantitative und hochempfindliche patientennahe Labordiagnostik: ein tragbares Raman-Lesegerät für seitliche Flusstests in der klinischen Chemie. <i>Angewandte Chemie</i> , 2019, 131, .	1.6	0
28	Applications in catalysis, photochemistry, and photodetection: general discussion. <i>Faraday Discussions</i> , 2019, 214, 479-499.	1.6	5
29	Dynamics of hot electron generation in metallic nanostructures: general discussion. <i>Faraday Discussions</i> , 2019, 214, 123-146.	1.6	21
30	New materials for hot electron generation: general discussion. <i>Faraday Discussions</i> , 2019, 214, 365-386.	1.6	9
31	Precision Plasmonics with Monomers and Dimers of Spherical Gold Nanoparticles: Nonequilibrium Dynamics at the Time and Space Limits. <i>Journal of Physical Chemistry C</i> , 2019, 123, 13181-13191.	1.5	18
32	ImmunoSERS microscopy for the detection of smooth muscle cells in atherosclerotic plaques. <i>Biosensors and Bioelectronics</i> , 2019, 133, 79-85.	5.3	9
33	Size-Selective Optical Printing of Silicon Nanoparticles through Their Dipolar Magnetic Resonance. <i>ACS Photonics</i> , 2019, 6, 815-822.	3.2	40
34	Schnelle, quantitative und hochempfindliche patientennahe Labordiagnostik: ein tragbares Raman-Lesegerät für seitliche Flusstests in der klinischen Chemie. <i>Angewandte Chemie</i> , 2019, 131, 450-455.	1.6	5
35	Spectral Screening of the Energy of Hot Holes over a Particle Plasmon Resonance. <i>Nano Letters</i> , 2019, 19, 1867-1874.	4.5	106
36	Frontispiece: Rapid, Quantitative, and Ultrasensitive Point-of-Care Testing: A Portable SERS Reader for Lateral Flow Assays in Clinical Chemistry. <i>Angewandte Chemie - International Edition</i> , 2019, 58, .	7.2	1

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37	Surface Plasmon Coupling in Dimers of Gold Nanoparticles: Experiment and Theory for Ideal (Spherical) and Nonideal (Faceted) Building Blocks. ACS Photonics, 2019, 6, 642-648.	3.2	43
38	Rapid, Quantitative, and Ultrasensitive Point-of-Care Testing: A Portable SERS Reader for Lateral Flow Assays in Clinical Chemistry. Angewandte Chemie - International Edition, 2019, 58, 442-446.	7.2	221
39	Surface-Enhanced Spectroscopies of a Molecular Monolayer in an All-Dielectric Nanoantenna. ACS Photonics, 2018, 5, 1546-1557.	3.2	48
40	iSERS Microscopy for Tissue-Based Cancer Diagnostics with SERS Nanotags. Springer Series in Surface Sciences, 2018, , 347-379.	0.3	3
41	Precision Plasmonics: Ideal Dimers of Gold Nanospheres for Precision Plasmonics: Synthesis and Characterization at the Single-Particle Level for Identification of Higher Order Modes (Small 4/2018). Small, 2018, 14, 1870018.	5.2	1
42	Surface-enhanced Raman spectroscopic detection of molecular chemo- and plasmocatalysis on noble metal nanoparticles. Chemical Communications, 2018, 54, 2326-2336.	2.2	93
43	Molecular recognition of carboxylates in the protein leucine zipper by a multivalent supramolecular ligand: residue-specific, sensitive and label-free probing by UV resonance Raman spectroscopy. Physical Chemistry Chemical Physics, 2018, 20, 1817-1820.	1.3	6
44	Simultaneous Rayleigh/Mie and Raman/Fluorescence Characterization of Molecularly Functionalized Colloids by Correlative Single-Particle Real-Time Imaging in Suspension. Analytical Chemistry, 2018, 90, 723-728.	3.2	9
45	Effect of Antigen Retrieval Methods on Nonspecific Binding of Antibody-Metal Nanoparticle Conjugates on Formalin-Fixed Paraffin-Embedded Tissue. Analytical Chemistry, 2018, 90, 760-768.	3.2	28
46	Evaluation of 3D gold nanodendrite layers obtained by templated galvanic displacement reactions for SERS sensing and heterogeneous catalysis. Nanoscale, 2018, 10, 20671-20680.	2.8	14
47	Probing the SERS brightness of individual Au nanoparticles, hollow Au/Ag nanoshells, Au nanostars and Au core/Au satellite particles: single-particle experiments and computer simulations. Nanoscale, 2018, 10, 21721-21731.	2.8	52
48	Quantitative Determination of Contribution by Enhanced Local Electric Field, Antenna-Amplified Light Scattering, and Surface Energy Transfer to the Performance of Plasmonic Organic Solar Cells. Small, 2018, 14, e1800870.	5.2	20
49	Rapid and sensitive SERS detection of the cytokine tumor necrosis factor alpha (tnf- α) in a magnetic bead pull-down assay with purified and highly Raman-active gold nanoparticle clusters. Analytical and Bioanalytical Chemistry, 2018, 410, 5993-6000.	1.9	23
50	Ideal Dimers of Gold Nanospheres for Precision Plasmonics: Synthesis and Characterization at the Single-Particle Level for Identification of Higher Order Modes. Small, 2018, 14, 1702754.	5.2	48
51	Advanced SERS Sensor Based on Capillarity-Assisted Preconcentration through Gold Nanoparticle-Decorated Porous Nanorods. Small, 2017, 13, 1603947.	5.2	27
52	Surface-Enhanced Raman Spectroscopy and Density Functional Theory Calculations of a Rationally Designed Rhodamine with Thiol Groups at the Xanthene Ring. Journal of Physical Chemistry C, 2017, 121, 15310-15317.	1.5	16
53	Fast and reproducible iSERS microscopy of single HER2-positive breast cancer cells using gold nanostars as SERS nanotags. Faraday Discussions, 2017, 205, 377-386.	1.6	20
54	Plasmonic hot electron transport drives nano-localized chemistry. Nature Communications, 2017, 8, 14880.	5.8	328

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55	Correlative Microscopy: Site-Specific SERS Assay for Survivin Protein Dimer: From Ensemble Experiments to Correlative Single-Particle Imaging (Small 32/2017). Small, 2017, 13, .	5.2	0
56	Site-Specific SERS Assay for Survivin Protein Dimer: From Ensemble Experiments to Correlative Single-Particle Imaging. Small, 2017, 13, 1700802.	5.2	7
57	SERS in biology/biomedical SERS: general discussion. Faraday Discussions, 2017, 205, 429-456.	1.6	22
58	Analytical SERS: general discussion. Faraday Discussions, 2017, 205, 561-600.	1.6	14
59	Theory of SERS enhancement: general discussion. Faraday Discussions, 2017, 205, 173-211.	1.6	27
60	Towards quantitative multi-color nanodiagnostics: spectral multiplexing with six silica-encapsulated SERS labels. Journal of Raman Spectroscopy, 2016, 47, 1012-1016.	1.2	19
61	Metal Nanoparticle-Catalyzed Reduction Using Borohydride in Aqueous Media: A Kinetic Analysis of the Surface Reaction by Microfluidic SERS. Angewandte Chemie, 2016, 128, 13933-13937.	1.6	16
62	Strong competition between electromagnetic enhancement and surface-energy-transfer induced quenching in plasmonic dye-sensitized solar cells: A generic yet controllable effect. Nano Energy, 2016, 26, 297-304.	8.2	23
63	Prof. Dr Dr h.c. Wolfgang Kiefer An appreciation of Wolfgang Kiefer on the occasion of his 75th birthday. Journal of Raman Spectroscopy, 2016, 47, 1001-1002.	1.2	1
64	Metal Nanoparticle-Catalyzed Reduction Using Borohydride in Aqueous Media: A Kinetic Analysis of the Surface Reaction by Microfluidic SERS. Angewandte Chemie - International Edition, 2016, 55, 13729-13733.	7.2	61
65	Label-free SERS monitoring of hydride reduction catalyzed by Au nanostars. Journal of Raman Spectroscopy, 2016, 47, 1024-1028.	1.2	16
66	iSERS microscopy guided by wide field immunofluorescence: analysis of HER2 expression on normal and breast cancer FFPE tissue sections. Analyst, The, 2016, 141, 5113-5119.	1.7	14
67	Raman-encoded microbeads for spectral multiplexing with SERS detection. RSC Advances, 2015, 5, 13762-13767.	1.7	58
68	Hot electron-induced reduction of small molecules on photorecycling metal surfaces. Nature Communications, 2015, 6, 7570.	5.8	222
69	Surface-enhanced spectroscopies. Physical Chemistry Chemical Physics, 2015, 17, 21045-21045.	1.3	0
70	Molecularly linked 3D plasmonic nanoparticle core/satellite assemblies: SERS nanotags with single-particle Raman sensitivity. Physical Chemistry Chemical Physics, 2015, 17, 24356-24360.	1.3	35
71	Gold and silver nanoparticle monomers are non-SERS-active: a negative experimental study with silica-encapsulated Raman-reporter-coated metal colloids. Physical Chemistry Chemical Physics, 2015, 17, 21120-21126.	1.3	76
72	FT-IR and FT-Raman spectra of 5-fluorouracil with solid state simulation by DFT methods. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 132, 430-445.	2.0	6

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73	Towards label-free and site-specific probing of the local pH in proteins: pH-dependent deep UV Raman spectra of histidine and tyrosine. <i>Journal of Molecular Structure</i> , 2014, 1073, 77-81.	1.8	2
74	Surface-Enhanced Raman Spectroscopy: Concepts and Chemical Applications. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 4756-4795.	7.2	1,894
75	Femtogram detection of cytokines in a direct dot-blot assay using SERS microspectroscopy and hydrophilically stabilized Au-Ag nanoshells. <i>Chemical Communications</i> , 2014, 50, 2711-2714.	2.2	50
76	Rationally designed multifunctional plasmonic nanostructures for surface-enhanced Raman spectroscopy: a review. <i>Reports on Progress in Physics</i> , 2014, 77, 116502.	8.1	74
77	Two-color SERS microscopy for protein co-localization in prostate tissue with primary antibody-protein A/C-gold nanocluster conjugates. <i>Nanoscale</i> , 2014, 6, 2361-2367.	2.8	49
78	Direct Silica Encapsulation of Self-Assembled Monolayer-Based Surface-Enhanced Raman Scattering Labels with Complete Surface Coverage of Raman Reporters by Noncovalently Bound Silane Precursors. <i>Chemistry - an Asian Journal</i> , 2014, 9, 2219-2224.	1.7	10
79	Duplex Microfluidic SERS Detection of Pathogen Antigens with Nanoyeast Single-Chain Variable Fragments. <i>Analytical Chemistry</i> , 2014, 86, 9930-9938.	3.2	60
80	Rapid immuno-SERS microscopy for tissue imaging with single-nanoparticle sensitivity. <i>Journal of Biophotonics</i> , 2013, 6, 785-792.	1.1	21
81	Microspectroscopic SERS detection of interleukin-6 with rationally designed gold/silver nanoshells. <i>Analyst, The</i> , 2013, 138, 1764.	1.7	40
82	Single gold trimers and 3D superstructures exhibit a polarization-independent SERS response. <i>Nanoscale</i> , 2013, 5, 110-113.	2.8	32
83	Medical applications of surface-enhanced Raman scattering. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 5329.	1.3	144
84	Rational design and synthesis of SERS labels. <i>Analyst, The</i> , 2013, 138, 2224.	1.7	188
85	Label-Free SERS Monitoring of Chemical Reactions Catalyzed by Small Gold Nanoparticles Using 3D Plasmonic Superstructures. <i>Journal of the American Chemical Society</i> , 2013, 135, 1657-1660.	6.6	407
86	Force field-based conformational searches: efficiency and performance for peptide receptor complexes. <i>Molecular Physics</i> , 2013, 111, 2489-2500.	0.8	3
87	Optimal control of coherent anti-Stokes Raman scattering image contrast. <i>Applied Physics Letters</i> , 2012, 100, 261106.	1.5	0
88	Quantitative label-free monitoring of peptide recognition by artificial receptors: a comparative FT-IR and UV resonance Raman spectroscopic study. <i>Chemical Science</i> , 2012, 3, 3371.	3.7	17
89	Monodispersity and size control in the synthesis of 20-100 nm quasi-spherical silver nanoparticles by citrate and ascorbic acid reduction in glycerol-water mixtures. <i>Chemical Communications</i> , 2012, 48, 8682.	2.2	177
90	Molecular interactions of 2'-deoxyguanosine 5'-monophosphate with glycine in aqueous media probed via concentration and pH dependent Raman spectroscopic investigations and DFT study. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 14315.	1.3	5

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91	Hydrophilically stabilized gold nanostars as SERS labels for tissue imaging of the tumor suppressor p63 by immuno-SERS microscopy. <i>Chemical Communications</i> , 2011, 47, 4216.	2.2	150
92	Plasmonically active micron-sized beads for integrated solid-phase synthesis and label-free SERS analysis. <i>Chemical Communications</i> , 2011, 47, 12762.	2.2	10
93	Quantitative detection of C-deuterated drugs by CARS microscopy and Raman microspectroscopy. <i>Analyst</i> , 2011, 136, 3686.	1.7	43
94	Immuno-Surface-Enhanced Coherent Anti-Stokes Raman Scattering Microscopy: Immunohistochemistry with Target-Specific Metallic Nanoparticles and Nonlinear Raman Microscopy. <i>Analytical Chemistry</i> , 2011, 83, 7081-7085.	3.2	38
95	Synthesis of Bifunctional Au/Pt/Au Core/Shell Nanoraspberries for in Situ SERS Monitoring of Platinum-Catalyzed Reactions. <i>Journal of the American Chemical Society</i> , 2011, 133, 19302-19305.	6.6	286
96	Two-channel microfluidic CARS: experimental quantification of pure vibrational contrast in CARS images. <i>Proceedings of SPIE</i> , 2011, , .	0.8	1
97	Deep UV Resonance Raman Spectroscopy with a Tunable 4 kHz Nanosecond Solid-State Laser and a 1 mL Circulating Free-Flow System. <i>Zeitschrift Fur Physikalische Chemie</i> , 2011, 225, 691-702.	1.4	2
98	Fast and Cost-Effective Purification of Gold Nanoparticles in the 20-250 nm Size Range by Continuous Density Gradient Centrifugation. <i>Small</i> , 2011, 7, 2443-2448.	5.2	20
99	3D Self-Assembled Plasmonic Superstructures of Gold Nanospheres: Synthesis and Characterization at the Single-Particle Level. <i>Small</i> , 2011, 7, 3445-3451.	5.2	77
100	Gold Nanoparticles: Fast and Cost-Effective Purification of Gold Nanoparticles in the 20-250 nm Size Range by Continuous Density Gradient Centrifugation (<i>Small</i> 17/2011). <i>Small</i> , 2011, 7, 2406-2406.	5.2	59
101	Tunable optical setup with high flexibility for spectrally resolved coherent anti-Stokes Raman scattering microscopy. <i>Laser Physics Letters</i> , 2011, 8, 541-546.	0.6	9
102	Hydrogen bonding in different pyrimidine-methanol clusters probed by polarized Raman spectroscopy and DFT calculations. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 667-675.	1.2	27
103	Self-association and hydrogen bonding of propionaldehyde in binary mixtures with water and methanol investigated by concentration-dependent polarized Raman study and DFT calculations. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 851-858.	1.2	20
104	Design and synthesis of Raman reporter molecules for tissue imaging by immuno-SERS microscopy. <i>Journal of Biophotonics</i> , 2011, 4, 453-463.	1.1	33
105	Spectrally shaped light from supercontinuum fiber light sources. <i>Optics Communications</i> , 2011, 284, 1970-1974.	1.0	3
106	Quantitative, label-free and site-specific monitoring of molecular recognition: a multivariate resonance Raman approach. <i>Chemical Communications</i> , 2011, 47, 568-570.	2.2	13
107	SERS microscopy: plasmonic nanoparticle probes and biomedical applications. , 2010, , .		6
108	Hydrogen bonding in the pyrimidine/ formamide system: a concentration-dependent Raman and DFT study. <i>Journal of Raman Spectroscopy</i> , 2010, 41, 1714-1719.	1.2	9

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109	Tunable narrow band filter for CARS microscopy. <i>Laser Physics Letters</i> , 2010, 7, 510-516.	0.6	27
110	FT-IR and FT-Raman spectra, ab initio and density functional computations of the vibrational spectra, molecular geometry, atomic charges and some molecular properties of the biomolecule 5-iodouracil. <i>Computational and Theoretical Chemistry</i> , 2010, 940, 29-44.	1.5	21
111	Synthesis of Glass-Coated SERS Nanoparticle Probes via SAMs with Terminal SiO ₂ Precursors. <i>Small</i> , 2010, 6, 733-737.	5.2	44
112	SERS and Solid Phase Synthesis. , 2010, , .		0
113	Immuno-SERS Microscopy: Nanoparticle Probes And Tissue Diagnostics. , 2010, , .		0
114	Quantitative UV RR Spectroscopy of Artificial Peptide Receptors. , 2010, , .		0
115	Surface Enhancement in Femtosecond Stimulated Raman Scattering. , 2010, , .		5
116	Two channel microfluidic CARS for quantifying pure vibrational contrast of model analytes. <i>Proceedings of SPIE</i> , 2010, , .	0.8	1
117	Direct Silica Encapsulation of SERS Labels via SAMs Containing Terminal SiO ₂ Precursors. , 2010, , .		0
118	Site-specific pKa determination of the carboxylate-binding subunit in artificial peptide receptors. <i>Chemical Communications</i> , 2010, 46, 2133.	2.2	17
119	SERS Microscopy: Nanoparticle Probes and Biomedical Applications. <i>ChemPhysChem</i> , 2009, 10, 1344-1354.	1.0	406
120	Tunable light source for narrowband laser excitation: application to Raman spectroscopy. <i>Laser Physics Letters</i> , 2009, 6, 639-643.	0.6	23
121	Dynamics and mechanism of the Crystal II to smecticG phase transition in TB7A by a temperature-dependent micro-Raman study and DFT calculations. <i>Journal of Raman Spectroscopy</i> , 2009, 40, 881-886.	1.2	21
122	SERS Labels for Red Laser Excitation: Silica-Encapsulated SAMs on Tunable Gold/Silver Nanoshells. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 1950-1953.	7.2	201
123	Cover Picture: SERS Labels for Red Laser Excitation: Silica-Encapsulated SAMs on Tunable Gold/Silver Nanoshells (<i>Angew. Chem. Int. Ed.</i> 11/2009). <i>Angewandte Chemie - International Edition</i> , 2009, 48, 1867-1867.	7.2	1
124	Conformations and vibrational properties of disulfide bridges: Potential energy distribution in the model system diethyl disulfide. <i>Chemical Physics</i> , 2009, 355, 81-84.	0.9	21
125	Multiplexing with SERS labels using mixed SAMs of Raman reporter molecules. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 394, 1839-1844.	1.9	70
126	Quantitative CARS Microscopic Detection of Analytes and Their Isotopomers in a Two-Channel Microfluidic Chip. <i>Small</i> , 2009, 5, 2816-2818.	5.2	37

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127	Optical properties and SERS efficiency of tunable gold/silver nanoshells. <i>Vibrational Spectroscopy</i> , 2009, 50, 43-47.	1.2	56
128	Water soluble SERS labels comprising a SAM with dual spacers for controlled bioconjugation. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 7499.	1.3	62
129	Selective Detection of Proteins and Nucleic Acids with Biofunctionalized SERS Labels. , 2009, , 267-288.		7
130	Polarization-sensitive CARS spectroscopy on free-base porphyrins: coproporphyrin I tetramethyl ester. <i>Journal of Raman Spectroscopy</i> , 2008, 39, 942-952.	1.2	5
131	Polarized Raman microspectroscopy on intact human hair. <i>Journal of Biophotonics</i> , 2008, 1, 419-424.	1.1	12
132	Inelastic neutron scattering, Raman, vibrational analysis with anharmonic corrections, and scaled quantum mechanical force field for polycrystalline l-alanine. <i>Chemical Physics</i> , 2008, 343, 1-18.	0.9	22
133	Characterization of guanidiniocarbonyl pyrroles in water by pH-dependent UV Raman spectroscopy and component analysis. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 6770.	1.3	16
134	UV resonance Raman spectroscopic monitoring of supramolecular complex formation: peptide recognition in aqueous solution. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 4598.	1.3	20
135	Hydrogen-Bonding between Pyrimidine and Water: A Vibrational Spectroscopic Analysis. <i>Journal of Physical Chemistry A</i> , 2007, 111, 5185-5191.	1.1	49
136	Direct and Label-Free Detection of Solid-Phase-Bound Compounds by Using Surface-Enhanced Raman Scattering Microspectroscopy. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 4786-4789.	7.2	42
137	Improper hydrogen bonding and motional narrowing in binary mixtures of 2-bromopyridine in methanol probed by polarized Raman study and DFT calculations. <i>Journal of Raman Spectroscopy</i> , 2007, 38, 1656-1664.	1.2	8
138	Monosodium glutamate in its anhydrous and monohydrate form: Differentiation by Raman spectroscopies and density functional calculations. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2007, 66, 604-615.	2.0	30
139	Symmetry Properties of Vibrational Modes in Mesoporphyrin IX Dimethyl Ester Investigated by Polarization-Sensitive Resonance Raman and CARS Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2006, 110, 11252-11259.	1.1	7
140	Structural and Molecular Hair Abnormalities in Trichothiodystrophy. <i>Journal of Investigative Dermatology</i> , 2006, 126, 2210-2216.	0.3	69
141	Conformational differences in protein disulfide linkages between normal hair and hair from subjects with trichothiodystrophy: A quantitative analysis by Raman microspectroscopy. <i>Biopolymers</i> , 2006, 82, 615-622.	1.2	47
142	Quantitative polarization-sensitive resonance CARS and resonance Raman spectroscopy on octaethylporphine. <i>Journal of Raman Spectroscopy</i> , 2006, 37, 384-391.	1.2	6
143	Continuous-wave solid-state Raman laser for spectroscopic applications. <i>Journal of Raman Spectroscopy</i> , 2006, 37, 421-428.	1.2	15
144	FT-Raman and NIR-SERS characterization of the antimalarial drugs chloroquine and mefloquine and their interaction with hemozoin. <i>Journal of Raman Spectroscopy</i> , 2006, 37, 326-334.	1.2	31

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145	Immuno-Raman microspectroscopy: In situ detection of antigens in tissue specimens by surface-enhanced Raman scattering. <i>Journal of Raman Spectroscopy</i> , 2006, 37, 719-721.	1.2	137
146	Concentration dependent wavenumber shifts and linewidth changes of some prominent vibrational modes of C ₄ H ₈ O investigated in a binary system (C ₄ H ₈ O+H ₂ O) by polarized Raman study and ab initio calculations. <i>Journal of Molecular Structure</i> , 2005, 735-736, 349-357.	1.8	24
147	In vitro polarization-resolved resonance Raman studies of the interaction of hematin with the antimalarial drug chloroquine. <i>Journal of Raman Spectroscopy</i> , 2004, 35, 819-821.	1.2	45
148	Reorganizational dynamics of multilamellar lipid bilayer assemblies using continuously scanning Fourier transform infrared spectroscopic imaging. <i>Chemistry and Physics of Lipids</i> , 2004, 130, 167-174.	1.5	18
149	Singlet-oxygen generation in the catalytic reaction of dioxiranes with nucleophilic anions. <i>Photochemical and Photobiological Sciences</i> , 2004, 3, 182-188.	1.6	11
150	Vibrational Microspectroscopic Imaging: Spatial Resolution Enhancement. , 2004, , .		1
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