Juergen Popp

List of Publications by Year in descending order

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877 papers	34,958 citations	6592 79 h-index	11581 135 g-index
927 all docs	927 docs citations	927 times ranked	26948 citing authors

#	Article	IF	Citations
1	Present and Future of Surface-Enhanced Raman Scattering. ACS Nano, 2020, 14, 28-117.	7.3	2,153
2	Surface-enhanced Raman spectroscopy (SERS): progress and trends. Analytical and Bioanalytical Chemistry, 2012, 403, 27-54.	1.9	712
3	Recent progress in surface-enhanced Raman spectroscopy for biological and biomedical applications: from cells to clinics. Chemical Society Reviews, 2017, 46, 3945-3961.	18.7	466
4	SERS: a versatile tool in chemical and biochemical diagnostics. Analytical and Bioanalytical Chemistry, 2008, 390, 113-124.	1.9	461
5	Tracking heavy water (D ₂ O) incorporation for identifying and sorting active microbial cells. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E194-203.	3.3	359
6	Sample size planning for classification models. Analytica Chimica Acta, 2013, 760, 25-33.	2.6	346
7	Selfâ€Healing Polymer Coatings Based on Crosslinked Metallosupramolecular Copolymers. Advanced Materials, 2013, 25, 1634-1638.	11.1	319
8	Raman Spectroscopy-A Prospective Tool in the Life Sciences. ChemPhysChem, 2003, 4, 14-30.	1.0	302
9	Raman and CARS microspectroscopy of cells and tissues. Analyst, The, 2009, 134, 1046.	1.7	275
10	Chemotaxonomic Identification of Single Bacteria by Micro-Raman Spectroscopy: Application to Clean-Room-Relevant Biological Contaminations. Applied and Environmental Microbiology, 2005, 71, 1626-1637.	1.4	267
11	Towards a fast, high specific and reliable discrimination of bacteria on strain level by means of SERS in a microfluidic device. Lab on A Chip, 2011, 11, 1013.	3.1	266
12	Vibrational spectroscopyâ€"A powerful tool for the rapid identification of microbial cells at the singleâ€cell level. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2009, 75A, 104-113.	1.1	241
13	Isolation and identification of bacteria by means of Raman spectroscopy. Advanced Drug Delivery Reviews, 2015, 89, 105-120.	6.6	238
14	A Reproducible Surface-Enhanced Raman Spectroscopy Approach. Online SERS Measurements in a Segmented Microfluidic System. Analytical Chemistry, 2007, 79, 1542-1547.	3.2	233
15	Micro-Raman spectroscopic identification of bacterial cells of the genus Staphylococcus and dependence on their cultivation conditions. Analyst, The, 2005, 130, 1543.	1.7	225
16	How to pre-process Raman spectra for reliable and stable models?. Analytica Chimica Acta, 2011, 704, 47-56.	2.6	210
17	Towards a Detailed Understanding of Bacterial Metabolismâ€"Spectroscopic Characterization ofStaphylococcus Epidermidis. ChemPhysChem, 2007, 8, 124-137.	1.0	201
18	The Bouguerâ€Beerâ€Lambert Law: Shining Light on the Obscure. ChemPhysChem, 2020, 21, 2029-2046.	1.0	190

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19	Tumour cell identification by means of Raman spectroscopy in combination with optical traps and microfluidic environments. Lab on A Chip, 2011, 11, 1484.	3.1	185
20	The application of Raman spectroscopy for the detection and identification of microorganisms. Journal of Raman Spectroscopy, 2016, 47, 89-109.	1.2	185
21	Labelâ€Free Molecular Imaging of Biological Cells and Tissues by Linear and Nonlinear Raman Spectroscopic Approaches. Angewandte Chemie - International Edition, 2017, 56, 4392-4430.	7.2	177
22	Raman spectroscopy at the beginning of the twenty-first century. Journal of Raman Spectroscopy, 2006, 37, 20-28.	1.2	176
23	Advantages and limitations of Raman spectroscopy for molecular diagnostics: an update. Expert Review of Molecular Diagnostics, 2015, 15, 773-787.	1.5	176
24	On the Way to Nanometer-Sized Information of the Bacterial Surface by Tip-Enhanced Raman Spectroscopy. ChemPhysChem, 2006, 7, 1428-1430.	1.0	174
25	Molecular pathology via IR and Raman spectral imaging. Journal of Biophotonics, 2013, 6, 855-886.	1.1	167
26	Raman to the limit: tipâ€enhanced Raman spectroscopic investigations of a single tobacco mosaic virus. Journal of Raman Spectroscopy, 2009, 40, 240-243.	1.2	162
27	Photochemical Fate: The First Step Determines Efficiency of H₂ Formation with a Supramolecular Photocatalyst. Angewandte Chemie - International Edition, 2010, 49, 3981-3984.	7.2	162
28	Cultivation-Free Raman Spectroscopic Investigations of Bacteria. Trends in Microbiology, 2017, 25, 413-424.	3.5	161
29	Plasmonic nanostructures for surface enhanced spectroscopic methods. Analyst, The, 2016, 141, 756-793.	1.7	159
30	Surface-enhanced Raman spectroscopy and microfluidic platforms: challenges, solutions and potential applications. Analyst, The, 2017, 142, 1022-1047.	1.7	158
31	How Delocalized Is N,N,Nâ€˜,Nâ€˜-Tetraphenylphenylenediamine Radical Cation? An Experimental and Theoretical Study on the Electronic and Molecular Structure. Journal of the American Chemical Society, 2004, 126, 7834-7845.	6.6	156
32	Fiber-Enhanced Raman Multigas Spectroscopy: A Versatile Tool for Environmental Gas Sensing and Breath Analysis. Analytical Chemistry, 2014, 86, 5278-5285.	3.2	152
33	Developments in spontaneous and coherent Raman scattering microscopic imaging for biomedical applications. Chemical Society Reviews, 2016, 45, 1819-1849.	18.7	151
34	From molecular structure to tissue architecture: collagen organization probed by SHG microscopy. Journal of Biophotonics, 2013, 6, 129-142.	1.1	150
35	The many facets of Raman spectroscopy for biomedical analysis. Analytical and Bioanalytical Chemistry, 2015, 407, 699-717.	1.9	149
36	Label-free SERS in biological and biomedical applications: Recent progress, current challenges and opportunities. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 197, 56-77.	2.0	148

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37	Quantitative Online Detection of Lowâ€Concentrated Drugs via a SERS Microfluidic System. ChemPhysChem, 2007, 8, 2665-2670.	1.0	147
38	Employing Theories Far beyond Their Limitsâ€"The Case of the (Boguerâ€) Beerâ€"Lambert Law. ChemPhysChem, 2016, 17, 1948-1955.	1.0	142
39	Spectral unmixing and clustering algorithms for assessment of single cells by Raman microscopic imaging. Theoretical Chemistry Accounts, 2011, 130, 1249-1260.	0.5	139
40	Nonlinear microscopy, infrared, and Raman microspectroscopy for brain tumor analysis. Journal of Biomedical Optics, 2011, 16, 021113.	1.4	138
41	Raman and coherent anti-Stokes Raman scattering microspectroscopy for biomedical applications. Journal of Biomedical Optics, 2012, 17, 040801.	1.4	137
42	Culture Independent Raman Spectroscopic Identification of Urinary Tract Infection Pathogens: A Proof of Principle Study. Analytical Chemistry, 2013, 85, 9610-9616.	3.2	133
43	Photophysics of an Intramolecular Hydrogenâ€Evolving Ruâ€"Pd Photocatalyst. Chemistry - A European Journal, 2009, 15, 7678-7688.	1.7	132
44	In-vivo Raman spectroscopy: from basics to applications. Journal of Biomedical Optics, 2018, 23, 1.	1.4	132
45	Fast and Highly Sensitive Fiber-Enhanced Raman Spectroscopic Monitoring of Molecular H₂ and CH₄ for Point-of-Care Diagnosis of Malabsorption Disorders in Exhaled Human Breath. Analytical Chemistry, 2015, 87, 982-988.	3.2	125
46	Deepâ€UV surfaceâ€enhanced Raman scattering. Journal of Raman Spectroscopy, 2007, 38, 1379-1382.	1.2	122
47	Identification and differentiation of single cells from peripheral blood by Raman spectroscopic imaging. Journal of Biophotonics, 2010, 3, 579-587.	1.1	122
48	Gold Films Deposited over Regular Arrays of Polystyrene Nanospheres as Highly Effective SERS Substrates from Visible to NIR. Journal of Physical Chemistry B, 2006, 110, 23982-23986.	1.2	118
49	Noninvasive Imaging of Intracellular Lipid Metabolism in Macrophages by Raman Microscopy in Combination with Stable Isotopic Labeling. Analytical Chemistry, 2012, 84, 8549-8556.	3.2	114
50	A comparative Raman and CARS imaging study of colon tissue. Journal of Biophotonics, 2009, 2, 303-312.	1.1	110
51	Towards detection and identification of circulating tumour cells using Raman spectroscopy. Analyst, The, 2010, 135, 3178.	1.7	110
52	SERS-based detection of biomolecules. Nanophotonics, 2014, 3, 383-411.	2.9	109
53	Towards a specific characterisation of components on a cell surfaceâ€"combined TERSâ€investigations of lipids and human cells. Journal of Raman Spectroscopy, 2009, 40, 1452-1457.	1.2	107
54	Multicore fiber with integrated fiber Bragg gratings for background-free Raman sensing. Optics Express, 2012, 20, 20156.	1.7	104

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55	Probing the enhancement mechanisms of SERS with p-aminothiophenol molecules adsorbed on self-assembled gold colloidal nanoparticles. Chemical Physics Letters, 2006, 422, 127-132.	1.2	103
56	Toward a Spectroscopic Hemogram: Raman Spectroscopic Differentiation of the Two Most Abundant Leukocytes from Peripheral Blood. Analytical Chemistry, 2012, 84, 5335-5342.	3.2	103
57	Raman imaging of changes in the polysaccharides distribution in the cell wall during apple fruit development and senescence. Planta, 2016, 243, 935-945.	1.6	101
58	Raman spectroscopic identification of single yeast cells. Journal of Raman Spectroscopy, 2005, 36, 377-379.	1.2	100
59	Quantitative SERS Analysis of Azorubine (E 122) in Sweet Drinks. Analytical Chemistry, 2015, 87, 2840-2844.	3.2	99
60	All-fiber laser source for CARS microscopy based on fiber optical parametric frequency conversion. Optics Express, 2012, 20, 4484.	1.7	98
61	Combined Dielectrophoresisâ€“Raman Setup for the Classification of Pathogens Recovered from the Urinary Tract. Analytical Chemistry, 2013, 85, 10717-10724.	3.2	97
62	Intrinsic self-healing polymers with a high E-modulus based on dynamic reversible urea bonds. NPG Asia Materials, 2017, 9, e420-e420.	3.8	97
63	Raman acoustic levitation spectroscopy of red blood cells and Plasmodium falciparum trophozoites. Lab on A Chip, 2007, 7, 1125.	3.1	96
64	Classification of lactic acid bacteria with UV-resonance Raman spectroscopy. Biopolymers, 2006, 82, 286-290.	1.2	95
65	Direct analysis of clinical relevant single bacterial cells from cerebrospinal fluid during bacterial meningitis by means of microâ€Raman spectroscopy. Journal of Biophotonics, 2009, 2, 70-80.	1.1	95
66	STXM and NanoSIMS Investigations on EPS Fractions before and after Adsorption to Goethite. Environmental Science & Technology, 2013, 47, 3158-3166.	4.6	95
67	Making a big thing of a small cell â€“ recent advances in single cell analysis. Analyst, The, 2014, 139, 1237-1273.	1.7	95
68	Identification of secondary metabolites in medicinal and spice plants by NIR-FT-Raman microspectroscopic mapping. Analyst, The, 2004, 129, 926-930.	1.7	94
69	Vibrational spectroscopic characterization of fluoroquinolones. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2005, 61, 1505-1517.	2.0	94
70	Towards a quantitative SERS approach â€“ online monitoring of analytes in a microfluidic system with isotopeâ€edited internal standards. Journal of Biophotonics, 2009, 2, 232-242.	1.1	94
71	Tuning of Photocatalytic Hydrogen Production and Photoinduced Intramolecular Electron Transfer Rates by Regioselective Bridging Ligand Substitution. ChemPhysChem, 2011, 12, 2101-2109.	1.0	93
72	Chemotaxonomic characterisation of essential oil plants by vibrational spectroscopy measurements. Vibrational Spectroscopy, 2004, 35, 81-86.	1.2	90

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73	Density functional and vibrational spectroscopic analysis of Î²-carotene. Journal of Raman Spectroscopy, 2003, 34, 413-419.	1.2	89
74	Chemometric analysis in Raman spectroscopy from experimental design to machine learningâ€“based modeling. Nature Protocols, 2021, 16, 5426-5459.	5.5	89
75	Identification of single eukaryotic cells with micro-Raman spectroscopy. Biopolymers, 2006, 82, 312-316.	1.2	87
76	Identification of meat-associated pathogens via Raman microspectroscopy. Food Microbiology, 2014, 38, 36-43.	2.1	87
77	Discriminating Isogenic Cancer Cells and Identifying Altered Unsaturated Fatty Acid Content as Associated with Metastasis Status, Using K-Means Clustering and Partial Least Squares-Discriminant Analysis of Raman Maps. Analytical Chemistry, 2010, 82, 2797-2802.	3.2	86
78	Bioactive secondary metabolites with multiple activities from a fungal endophyte. Microbial Biotechnology, 2017, 10, 175-188.	2.0	85
79	Surface-enhanced Raman scattering efficiency of truncated tetrahedral Ag nanoparticle arrays mediated by electromagnetic couplings. Applied Physics Letters, 2006, 88, 143121.	1.5	83
80	High-Throughput Screening Raman Spectroscopy Platform for Label-Free Cellomics. Analytical Chemistry, 2018, 90, 2023-2030.	3.2	83
81	The identification of microorganisms by micro-Raman spectroscopy. Journal of Molecular Structure, 2003, 661-662, 363-369.	1.8	81
82	On-Line Monitoring and Identification of Bioaerosols. Analytical Chemistry, 2006, 78, 2163-2170.	3.2	81
83	Raman Based Molecular Imaging and Analytics: A Magic Bullet for Biomedical Applications!?. Analytical Chemistry, 2016, 88, 133-151.	3.2	81
84	The application of a SERS fiber probe for the investigation of sensitive biological samples. Analyst, The, 2004, 129, 1193-1199.	1.7	80
85	Identification of water pathogens by Raman microspectroscopy. Water Research, 2014, 48, 179-189.	5.3	80
86	LOC-SERS: A Promising Closed System for the Identification of Mycobacteria. Analytical Chemistry, 2016, 88, 7998-8004.	3.2	80
87	Raman Spectroscopy as a Potential Tool for Detection of Brucella spp. in Milk. Applied and Environmental Microbiology, 2012, 78, 5575-5583.	1.4	79
88	Polymeric Halogenâ€Bondâ€Based Donor Systems Showing Selfâ€Healing Behavior in Thin Films. Angewandte Chemie - International Edition, 2017, 56, 4047-4051.	7.2	79
89	Highly Sensitive Broadband Raman Sensing of Antibiotics in Step-Index Hollow-Core Photonic Crystal Fibers. ACS Photonics, 2017, 4, 138-145.	3.2	79
90	Alignment-free, all-spliced fiber laser source for CARS microscopy based on four-wave-mixing. Optics Express, 2012, 20, 21010.	1.7	78

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91	Endoscopic fiber probe for nonlinear spectroscopic imaging. Optica, 2017, 4, 496.	4.8	78
92	Biochemical imaging below the diffraction limit â€“ probing cellular membrane related structures by tipâ€enhanced Raman spectroscopy (TERS). Journal of Biophotonics, 2010, 3, 455-461.	1.1	76
93	Vibrational spectroscopic studies to acquire a quality control method of Eucalyptus essential oils. Biopolymers, 2005, 78, 237-248.	1.2	75
94	Ultrasensitive Fiber Enhanced UV Resonance Raman Sensing of Drugs. Analytical Chemistry, 2013, 85, 6264-6271.	3.2	75
95	Application of Vibrational Spectroscopy and Imaging to Point-of-Care Medicine: A Review. Applied Spectroscopy, 2018, 72, 52-84.	1.2	75
96	Quartz microfluidic chip for tumour cell identification by Raman spectroscopy in combination with optical traps. Analytical and Bioanalytical Chemistry, 2013, 405, 2743-2746.	1.9	74
97	Fiber enhanced Raman gas spectroscopy. TrAC - Trends in Analytical Chemistry, 2018, 103, 230-238.	5.8	74
98	Characterization of bacterial growth and the influence of antibiotics by means of UV resonance Raman spectroscopy. Biopolymers, 2006, 82, 306-311.	1.2	73
99	Bioanalytical application of surfaceâ€•and tipâ€enhanced <scp>R</scp>aman spectroscopy. Engineering in Life Sciences, 2012, 12, 131-143.	2.0	73
100	Localizing and Identifying Living Bacteria in an Abiotic Environment by a Combination of Raman and Fluorescence Microscopy. Analytical Chemistry, 2008, 80, 8568-8575.	3.2	72
101	Fiber optic probes for linear and nonlinear Raman applications â€“ Current trends and future development. Laser and Photonics Reviews, 2013, 7, 698-731.	4.4	71
102	Four-wave-mixing-based optical parametric oscillator delivering energetic, tunable, chirped femtosecond pulses for non-linear biomedical applications. Optics Express, 2015, 23, 23968.	1.7	71
103	Common mistakes in cross-validating classification models. Analytical Methods, 2017, 9, 4410-4417.	1.3	71
104	UV Raman spectroscopyâ€”A technique for biological and mineralogical in situ planetary studies. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2007, 68, 1029-1035.	2.0	70
105	Identification of Bacillus anthracis via Raman Spectroscopy and Chemometric Approaches. Analytical Chemistry, 2012, 84, 9873-9880.	3.2	70
106	Studies of silicon nanoparticles uptake and biodegradation in cancer cells by Raman spectroscopy. Nanomedicine: Nanotechnology, Biology, and Medicine, 2016, 12, 1931-1940.	1.7	70
107	A shiftedâ€excitation Raman difference spectroscopy (SERDS) evaluation strategy for the efficient isolation of Raman spectra from extreme fluorescence interference. Journal of Raman Spectroscopy, 2016, 47, 198-209.	1.2	70
108	A comprehensive study of classification methods for medical diagnosis. Journal of Raman Spectroscopy, 2009, 40, 1759-1765.	1.2	69

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109	Spectroscopic Investigation of the Ultrafast Photoinduced Dynamics in Ï€â€Conjugated Terpyridines. ChemPhysChem, 2009, 10, 910-919.	1.0	68
110	Impact of fixation on in vitro cell culture lines monitored with Raman spectroscopy. Analyst, The, 2009, 134, 1154.	1.7	68
111	Checking and Improving Calibration of Raman Spectra using Chemometric Approaches. Zeitschrift Fur Physikalische Chemie, 2011, 225, 753-764.	1.4	68
112	Classification of inflammatory bowel diseases by means of Raman spectroscopic imaging of epithelium cells. Journal of Biomedical Optics, 2012, 17, 0760301.	1.4	68
113	Tumor margin identification and prediction of the primary tumor from brain metastases using FTIR imaging and support vector machines. Analyst, The, 2013, 138, 3983.	1.7	68
114	Automatization of spike correction in Raman spectra of biological samples. Chemometrics and Intelligent Laboratory Systems, 2016, 155, 1-6.	1.8	68
115	Toward Levofloxacin Monitoring in Human Urine Samples by Employing the LoC-SERS Technique. Journal of Physical Chemistry C, 2016, 120, 20613-20623.	1.5	68
116	SERS as an analytical tool in environmental science: The detection of sulfamethoxazole in the nanomolar range by applying a microfluidic cartridge setup. Analytica Chimica Acta, 2017, 949, 1-7.	2.6	68
117	Gaussian mixture discriminant analysis for the single-cell differentiation of bacteria using micro-Raman spectroscopy. Chemometrics and Intelligent Laboratory Systems, 2009, 96, 159-171.	1.8	67
118	Droplet formation via flow-through microdevices in Raman and surface enhanced Raman spectroscopyâ€"concepts and applications. Lab on A Chip, 2011, 11, 3584.	3.1	66
119	Identification of primary tumors of brain metastases by Raman imaging and support vector machines. Chemometrics and Intelligent Laboratory Systems, 2012, 117, 224-232.	1.8	66
120	Pseudo-HE images derived from CARS/TPEF/SHG multimodal imaging in combination with Raman-spectroscopy as a pathological screening tool. BMC Cancer, 2016, 16, 534.	1.1	66
121	A specific spectral signature of serum and plasma-derived extracellular vesicles for cancer screening. Nanomedicine: Nanotechnology, Biology, and Medicine, 2017, 13, 835-841.	1.7	66
122	Optimization of Raman-spectrum baseline correction in biological application. Analyst, The, 2016, 141, 2396-2404.	1.7	65
123	Simple Ciprofloxacin Resistance Test and Determination of Minimal Inhibitory Concentration within 2 h Using Raman Spectroscopy. Analytical Chemistry, 2018, 90, 1811-1818.	3.2	65
124	Cell wall investigations utilizing tip-enhanced Raman scattering. Journal of Microscopy, 2008, 229, 533-539.	0.8	64
125	Widely tuneable fiber optical parametric amplifier for coherent anti-Stokes Raman scattering microscopy. Optics Express, 2012, 20, 26583.	1.7	63
126	Enhanced Raman multigas sensing â€“ a novel tool for control and analysis of¹³CO₂labeling experiments in environmental research. Analyst, The, 2014, 139, 3879.	1.7	63

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127	Microarrayâ€Based Detection of Dyeâ€Labeled DNA by SERRS Using Particles Formed by Enzymatic Silver Deposition. ChemPhysChem, 2008, 9, 867-872.	1.0	62
128	Substitution-controlled ultrafast excited-state processes in Ruâ€“dppz-derivatives. Physical Chemistry Chemical Physics, 2010, 12, 1357-1368.	1.3	62
129	Advances in optical biopsy â€“ correlation of malignancy and cell density of primary brain tumors using Raman microspectroscopic imaging. Analyst, The, 2012, 137, 5533.	1.7	62
130	Characterization of atherosclerotic plaque depositions by Raman and FTIR imaging. Journal of Biophotonics, 2013, 6, 110-121.	1.1	62
131	Detection of Pseudomonas aeruginosa Metabolite Pyocyanin in Water and Saliva by Employing the SERS Technique. Sensors, 2017, 17, 1704.	2.1	62
132	Towards translation of surface-enhanced Raman spectroscopy (SERS) to clinical practice: Progress and trends. TrAC - Trends in Analytical Chemistry, 2021, 134, 116122.	5.8	62
133	Synthesis and Characterisation of Poly(bipyridine)ruthenium Complexes as Building Blocks for Heterosupramolecular Arrays. European Journal of Inorganic Chemistry, 2008, 2008, 3310-3319.	1.0	61
134	The morphology of silver nanoparticles prepared by enzyme-induced reduction. Beilstein Journal of Nanotechnology, 2012, 3, 404-414.	1.5	61
135	In Vivo Characterization of Atherosclerotic Plaque Depositions by Raman-Probe Spectroscopy and in Vitro Coherent Anti-Stokes Raman Scattering Microscopic Imaging on a Rabbit Model. Analytical Chemistry, 2012, 84, 7845-7851.	3.2	61
136	Double antiresonant hollow core fiber â€“ guidance in the deep ultraviolet by modified tunneling leaky modes. Optics Express, 2014, 22, 19131.	1.7	61
137	Complexity of fatty acid distribution inside human macrophages on single cell level using Raman micro-spectroscopy. Analytical and Bioanalytical Chemistry, 2014, 406, 7037-7046.	1.9	61
138	Fiberâ€based light sources for biomedical applications of coherent antiâ€Stokes Raman scattering microscopy. Laser and Photonics Reviews, 2015, 9, 435-451.	4.4	61
139	Deep learning a boon for biophotonics?. Journal of Biophotonics, 2020, 13, e201960186.	1.1	61
140	Confocal Micro-Raman Spectroscopy: Theory and Application to a Hybrid Polymer Coating. Applied Spectroscopy, 2002, 56, 536-540.	1.2	60
141	Identification of Biotic and Abiotic Particles by Using a Combination of Optical Tweezers and In Situ Raman Spectroscopy. ChemPhysChem, 2004, 5, 1159-1170.	1.0	60
142	Probing Innovative Microfabricated Substrates for their Reproducible SERS Activity. ChemPhysChem, 2008, 9, 758-762.	1.0	60
143	Three-Dimensional Molecular Mapping of a Multiple Emulsion by Means of CARS Microscopy. Journal of Physical Chemistry B, 2008, 112, 1420-1426.	1.2	59
144	The molecular mechanism of dual emission in terpyridine transition metal complexesâ€”ultrafast investigations of photoinduced dynamics. Physical Chemistry Chemical Physics, 2011, 13, 1606-1617.	1.3	59

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145	Raman Spectroscopic Detection of Anthrax Endospores in Powder Samples. Angewandte Chemie - International Edition, 2012, 51, 5339-5342.	7.2	59
146	Polyacrylamid/Silver Composite Particles Produced via Microfluidic Photopolymerization for Single Particle-Based SERS Microsensorics. Analytical Chemistry, 2013, 85, 313-318.	3.2	59
147	THz Absorption in Fabric and Its Impact on Body Scanning for Security Application. IEEE Transactions on Terahertz Science and Technology, 2015, 5, 999-1004.	2.0	59
148	Low-loss single-mode guidance in large-core antiresonant hollow-core fibers. Optics Letters, 2015, 40, 3432.	1.7	59
149	Periodic array-based substrates for surface-enhanced infrared spectroscopy. Nanophotonics, 2018, 7, 39-79.	2.9	59
150	The investigation of single bacteria by means of fluorescence staining and Raman spectroscopy. Journal of Raman Spectroscopy, 2007, 38, 369-372.	1.2	58
151	Microfabricated SERS-arrays with sharp-edged metallic nanostructures. Microelectronic Engineering, 2008, 85, 1792-1794.	1.1	58
152	Detection of thiopurine methyltransferase activity in lysed red blood cells by means of lab-on-a-chip surface enhanced Raman spectroscopy (LOC-SERS). Analytical and Bioanalytical Chemistry, 2011, 400, 2755-2761.	1.9	58
153	Cell type-specific delivery of short interfering RNAs by dye-functionalised theranostic nanoparticles. Nature Communications, 2014, 5, 5565.	5.8	58
154	Lab-on-a-Chip-Surface Enhanced Raman Scattering Combined with the Standard Addition Method: Toward the Quantification of Nitroxoline in Spiked Human Urine Samples. Analytical Chemistry, 2016, 88, 9173-9180.	3.2	58
155	Beer's Law â€“ Why Absorbance Depends (Almost) Linearly on Concentration. ChemPhysChem, 2019, 20, 511-515.	1.0	58
156	Ultrafast Excited-State Excitation Dynamics in a Quasi-Two-Dimensional Light-Harvesting Antenna Based on Ruthenium(II) and Palladium(II) Chromophores. Chemistry - A European Journal, 2006, 12, 5105-5115.	1.7	57
157	In Situ Localization and Structural Analysis of the Malaria Pigment Hemozoin. Journal of Physical Chemistry B, 2007, 111, 11047-11056.	1.2	57
158	The First Photoexcitation Step of Ruthenium-Based Models for Artificial Photosynthesis Highlighted by Resonance Raman Spectroscopy. Journal of Physical Chemistry B, 2007, 111, 6078-6087.	1.2	57
159	SERS as tool for the analysis of DNA-chips in a microfluidic platform. Analytical and Bioanalytical Chemistry, 2010, 396, 1381-1384.	1.9	57
160	Monitoring the chemistry of self-healing by vibrational spectroscopy â€“ current state and perspectives. Materials Today, 2014, 17, 57-69.	8.3	57
161	Tracking active groundwater microbes with D₂O labelling to understand their ecosystem function. Environmental Microbiology, 2018, 20, 369-384.	1.8	57
162	Raman microspectroscopy for microbiology. Nature Reviews Methods Primers, 2021, 1, .	11.8	57

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163	Raman and Fluorescence Spectra of Single Optically Trapped Microdroplets in Emulsions. Applied Spectroscopy, 1994, 48, 1166-1168.	1.2	56
164	Characterizing cytochrome c states â€“ TERS studies of whole mitochondria. Chemical Communications, 2011, 47, 11453.	2.2	56
165	Surface-enhanced Raman spectroscopy (SERS) in food analytics: Detection of vitamins B2 and B12 in cereals. Talanta, 2016, 160, 289-297.	2.9	56
166	Copper nanostructures for chemical analysis using surface-enhanced Raman spectroscopy. TrAC - Trends in Analytical Chemistry, 2018, 108, 247-259.	5.8	56
167	Unsupervised unmixing of Raman microspectroscopic images for morphochemical analysis of non-dried brain tumor specimens. Analytical and Bioanalytical Chemistry, 2012, 403, 719-725.	1.9	55
168	Expanding Multimodal Microscopy by High Spectral Resolution Coherent Anti-Stokes Raman Scattering Imaging for Clinical Disease Diagnostics. Analytical Chemistry, 2013, 85, 6703-6715.	3.2	55
169	Investigation of Gas Exchange Processes in Peat Bog Ecosystems by Means of Innovative Raman Gas Spectroscopy. Analytical Chemistry, 2013, 85, 1295-1299.	3.2	55
170	LOC-SERS: towards point-of-care diagnostic of methotrexate. Analytical Methods, 2014, 6, 3943-3947.	1.3	55
171	Toward Culture-Free Raman Spectroscopic Identification of Pathogens in Ascitic Fluid. Analytical Chemistry, 2015, 87, 937-943.	3.2	55
172	Towards SERS based applications in food analytics: Lipophilic sensor layers for the detection of Sudan III in food matrices. Analytica Chimica Acta, 2015, 860, 43-50.	2.6	55
173	Multimodal Imaging Spectroscopy of Tissue. Annual Review of Analytical Chemistry, 2015, 8, 359-387.	2.8	55
174	Spectrometer calibration protocol for Raman spectra recorded with different excitation wavelengths. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 149, 544-549.	2.0	55
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