Michael Schmitt

List of Publications by Year
in descending order

277 papers	11,429 citations	26630 56 h-index	42399 92 g-index
285 all docs	285 docs citations	285 times ranked	11066 citing authors

#	Article	IF	Citations
1	Surface-enhanced Raman spectroscopy (SERS): progress and trends. Analytical and Bioanalytical Chemistry, 2012, 403, 27-54.	3.7	712
2	Selfâ€Healing Polymer Coatings Based on Crosslinked Metallosupramolecular Copolymers. Advanced Materials, 2013, 25, 1634-1638.	21.0	319
3	Raman Spectroscopy-A Prospective Tool in the Life Sciences. ChemPhysChem, 2003, 4, 14-30.	2.1	302
4	Mechanism and Dynamics of Azobenzene Photoisomerization. Journal of the American Chemical Society, 2003, 125, 8098-8099.	13.7	296
5	Chemotaxonomic Identification of Single Bacteria by Micro-Raman Spectroscopy: Application to Clean-Room-Relevant Biological Contaminations. Applied and Environmental Microbiology, 2005, 71, 1626-1637.	3.1	267
6	Towards a Detailed Understanding of Bacterial Metabolismâ€"Spectroscopic Characterization ofStaphylococcus Epidermidis. ChemPhysChem, 2007, 8, 124-137.	2.1	201
7	Labelâ€Free Molecular Imaging of Biological Cells and Tissues by Linear and Nonlinear Raman Spectroscopic Approaches. Angewandte Chemie - International Edition, 2017, 56, 4392-4430.	13.8	177
8	Raman spectroscopy at the beginning of the twenty-first century. Journal of Raman Spectroscopy, 2006, 37, 20-28.	2.5	176
9	Advantages and limitations of Raman spectroscopy for molecular diagnostics: an update. Expert Review of Molecular Diagnostics, 2015, 15, 773-787.	3.1	176
10	On the Way to Nanometer-Sized Information of the Bacterial Surface by Tip-Enhanced Raman Spectroscopy. ChemPhysChem, 2006, 7, 1428-1430.	2.1	174
11	Photochemical Fate: The First Step Determines Efficiency of H₂ Formation with a Supramolecular Photocatalyst. Angewandte Chemie - International Edition, 2010, 49, 3981-3984.	13.8	162
12	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.	13.7	156
13	Developments in spontaneous and coherent Raman scattering microscopic imaging for biomedical applications. Chemical Society Reviews, 2016, 45, 1819-1849.	38.1	151
14	Dynamics of excited-state proton transfer systems via time-resolved photoelectron spectroscopy. Journal of Chemical Physics, 2001, 114, 2519-2522.	3.0	147
15	Femtosecond time-resolved coherent anti-Stokes Raman scattering for the simultaneous study of ultrafast ground and excited state dynamics: iodine vapour. Chemical Physics Letters, 1997, 270, 9-15.	2.6	145
16	Raman and coherent anti-Stokes Raman scattering microspectroscopy for biomedical applications. Journal of Biomedical Optics, 2012, 17, 040801.	2.6	137
17	Photophysics of an Intramolecular Hydrogenâ€Evolving Ruâ€"Pd Photocatalyst. Chemistry - A European Journal, 2009, 15, 7678-7688.	3.3	132
18	Deepâ€UV surfaceâ€enhanced Raman scattering. Journal of Raman Spectroscopy, 2007, 38, 1379-1382.	2.5	122

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19	Efficient anti-Stokes generation through phase-matched four-wave mixing in higher-order modes of a microstructure fiber. Optics Letters, 2003, 28, 1948.	3.3	111
20	A comparative Raman and CARS imaging study of colon tissue. Journal of Biophotonics, 2009, 2, 303-312.	2.3	110
21	The Application of Femtosecond Time-Resolved Coherent Anti-Stokes Raman Scattering for the Investigation of Ground and Excited State Molecular Dynamics of Molecules in the Gas Phase. Journal of Physical Chemistry A, 1998, 102, 4059-4065.	2.5	108
22	Raman imaging of changes in the polysaccharides distribution in the cell wall during apple fruit development and senescence. Planta, 2016, 243, 935-945.	3.2	101
23	Raman spectroscopic identification of single yeast cells. Journal of Raman Spectroscopy, 2005, 36, 377-379.	2.5	100
24	Intrinsic self-healing polymers with a high E-modulus based on dynamic reversible urea bonds. NPG Asia Materials, 2017, 9, e420-e420.	7.9	97
25	Vibrational spectroscopic characterization of fluoroquinolones. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2005, 61, 1505-1517.	3.9	94
26	Tuning of Photocatalytic Hydrogen Production and Photoinduced Intramolecular Electron Transfer Rates by Regioselective Bridging Ligand Substitution. ChemPhysChem, 2011, 12, 2101-2109.	2.1	93
27	Density functional and vibrational spectroscopic analysis of Î²-carotene. Journal of Raman Spectroscopy, 2003, 34, 413-419.	2.5	89
28	Wave packet dynamics in different electronic states investigated by femtosecond time-resolved four-wave-mixing spectroscopy. Applied Physics B: Lasers and Optics, 2000, 71, 299-317.	2.2	87
29	Multimode pumped continuous-wave solid-state Raman laser. Optics Letters, 2004, 29, 2524.	3.3	83
30	The identification of microorganisms by micro-Raman spectroscopy. Journal of Molecular Structure, 2003, 661-662, 363-369.	3.6	81
31	The application of a SERS fiber probe for the investigation of sensitive biological samples. Analyst, The, 2004, 129, 1193-1199.	3.5	80
32	Polymeric Halogenâ€Bondâ€Based Donor Systems Showing Selfâ€Healing Behavior in Thin Films. Angewandte Chemie - International Edition, 2017, 56, 4047-4051.	13.8	79
33	Enhancement of photoluminescence in manganese-doped ZnS nanoparticles due to a silica shell. Journal of Chemical Physics, 2003, 118, 8945-8953.	3.0	78
34	Endoscopic fiber probe for nonlinear spectroscopic imaging. Optica, 2017, 4, 496.	9.3	78
35	Femtosecond time-resolved four-wave mixing spectroscopy in iodine vapour. Chemical Physics Letters, 1997, 280, 339-347.	2.6	75
36	Characterization of bacterial growth and the influence of antibiotics by means of UV resonance Raman spectroscopy. Biopolymers, 2006, 82, 306-311.	2.4	73

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37	Four-wave-mixing-based optical parametric oscillator delivering energetic, tunable, chirped femtosecond pulses for non-linear biomedical applications. Optics Express, 2015, 23, 23968.	3.4	71
38	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.	3.9	70
39	Models for the Active Site in [FeFe] Hydrogenase with Iron-Bound Ligands Derived from Bis-, Tris-, and Tetrakis(mercaptomethyl)silanes. Inorganic Chemistry, 2010, 49, 10117-10132.	4.0	70
40	Spectroscopic Investigation of the Ultrafast Photoinduced Dynamics in Ï€â€Conjugated Terpyridines. ChemPhysChem, 2009, 10, 910-919.	2.1	68
41	Checking and Improving Calibration of Raman Spectra using Chemometric Approaches. Zeitschrift Fur Physikalische Chemie, 2011, 225, 753-764.	2.8	68
42	Classification of inflammatory bowel diseases by means of Raman spectroscopic imaging of epithelium cells. Journal of Biomedical Optics, 2012, 17, 0760301.	2.6	68
43	Droplet formation via flow-through microdevices in Raman and surface enhanced Raman spectroscopyâ€"concepts and applications. Lab on A Chip, 2011, 11, 3584.	6.0	66
44	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.	2.6	66
45	Electronic continua in time-resolved photoelectron spectroscopy. II. Corresponding ionization correlations. Journal of Chemical Physics, 2001, 114, 1206-1213.	3.0	64
46	Substituent Effects in Molecular Electronic Relaxation Dynamics via Time-Resolved Photoelectron Spectroscopy:â€‰Ï€Ï€* States in Benzenes. Journal of Physical Chemistry A, 2002, 106, 8979-8991.	2.5	64
47	Methods and applications of femtosecond time-resolved photoelectron spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 2000, 112, 183-198.	1.7	63
48	Low-wave-number Raman scattering fromCdSxSe1â^'xquantum dots embedded in a glass matrix. Physical Review B, 2003, 67, .	3.2	63
49	Ultrafast proton transfer of 1-hydroxy-2-acetonaphthone: Reaction path from resonance Raman and transient absorption studies. Journal of Chemical Physics, 2005, 122, 244315.	3.0	62
50	Substitution-controlled ultrafast excited-state processes in Ruâ€"dppz-derivatives. Physical Chemistry Chemical Physics, 2010, 12, 1357-1368.	2.8	62
51	Synthesis and Characterisation of Poly(bipyridine)ruthenium Complexes as Building Blocks for Heterosupramolecular Arrays. European Journal of Inorganic Chemistry, 2008, 2008, 3310-3319.	2.0	61
52	Fiberâ€based light sources for biomedical applications of coherent antiâ€Stokes Raman scattering microscopy. Laser and Photonics Reviews, 2015, 9, 435-451.	8.7	61
53	Identification of Biotic and Abiotic Particles by Using a Combination of Optical Tweezers and In Situ Raman Spectroscopy. ChemPhysChem, 2004, 5, 1159-1170.	2.1	60
54	Three-Dimensional Molecular Mapping of a Multiple Emulsion by Means of CARS Microscopy. Journal of Physical Chemistry B, 2008, 112, 1420-1426.	2.6	59

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55	Synthesis, structure and spectroscopic characterization of water-soluble CdS nanoparticles. Chemical Physics Letters, 2003, 379, 443-451.	2.6	57
56	Raman spectroscopy of II-VI semiconductor nanostructures: CdS quantum dots. Journal of Raman Spectroscopy, 2003, 34, 100-103.	2.5	57
57	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.	3.3	57
58	In Situ Localization and Structural Analysis of the Malaria Pigment Hemozoin. Journal of Physical Chemistry B, 2007, 111, 11047-11056.	2.6	57
59	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.	2.6	57
60	Monitoring the chemistry of self-healing by vibrational spectroscopy â€“ current state and perspectives. Materials Today, 2014, 17, 57-69.	14.2	57
61	Expanding Multimodal Microscopy by High Spectral Resolution Coherent Anti-Stokes Raman Scattering Imaging for Clinical Disease Diagnostics. Analytical Chemistry, 2013, 85, 6703-6715.	6.5	55
62	Multimodal Imaging Spectroscopy of Tissue. Annual Review of Analytical Chemistry, 2015, 8, 359-387.	5.4	55
63	Spectrometer calibration protocol for Raman spectra recorded with different excitation wavelengths. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 149, 544-549.	3.9	55
64	Deeper Understanding of Biological Tissue: Quantitative Correlation of MALDI-TOF and Raman Imaging. Analytical Chemistry, 2013, 85, 10829-10834.	6.5	54
65	Protochlorophyllide a: A Comprehensive Photophysical Picture. ChemPhysChem, 2009, 10, 144-150.	2.1	51
66	UV Raman ImagingA Promising Tool for Astrobiology:Â Comparative Raman Studies with Different Excitation Wavelengths on SNC Martian Meteorites. Analytical Chemistry, 2007, 79, 1101-1108.	6.5	50
67	In situUV Resonance Raman Micro-spectroscopic Localization of the Antimalarial Quinine in Cinchona Bark. Journal of Physical Chemistry B, 2007, 111, 4171-4177.	2.6	50
68	Synthesis, Characterization, and Electroâ€Optical Properties of Zn^{II}Complexes with Ï€â€Conjugated Terpyridine Ligands. ChemPhysChem, 2009, 10, 787-798.	2.1	49
69	Different contrast information obtained from CARS and nonresonant FWM images. Journal of Raman Spectroscopy, 2009, 40, 941-947.	2.5	49
70	Non-invasive depth profile imaging of the stratum corneum using confocal Raman microscopy: First insights into the method. European Journal of Pharmaceutical Sciences, 2013, 50, 601-608.	4.0	49
71	Resonance-Raman spectro-electrochemistry of intermediates in molecular artificial photosynthesis of bimetallic complexes. Chemical Communications, 2014, 50, 5227.	4.1	48
72	Solvent Effects on the Excited-State Processes of Protochlorophyllide:Â A Femtosecond Time-Resolved Absorption Study. Journal of Physical Chemistry B, 2006, 110, 4399-4406.	2.6	47

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73	Combined fiber probe for fluorescence lifetime and Raman spectroscopy. Analytical and Bioanalytical Chemistry, 2015, 407, 8291-8301.	3.7	47
74	Structural Analysis of the Anti-Malaria Active Agent Chloroquine under Physiological Conditions. Journal of Physical Chemistry B, 2007, 111, 1815-1822.	2.6	46
75	Ultrasensitivein situTracing of the Alkaloid Dioncophylline A in the Tropical LianaTriphyophyllum peltatumby Applying Deep-UV Resonance Raman Microscopy. Analytical Chemistry, 2007, 79, 986-993.	6.5	46
76	Beyond endoscopic assessment in inflammatory bowel disease: real-time histology of disease activity by non-linear multimodal imaging. Scientific Reports, 2016, 6, 29239.	3.3	46
77	Observation of Raman conversion for 70-fs pulses in KGd(WO_4)_2 crystal in the regime of impulsive stimulated Raman scattering. Optics Letters, 2003, 28, 926.	3.3	45
78	In vitro polarization-resolved resonance Raman studies of the interaction of hematin with the antimalarial drug chloroquine. Journal of Raman Spectroscopy, 2004, 35, 819-821.	2.5	45
79	In vivo localization and identification of the antiplasmodial alkaloid dioncophylline A in the tropical lianaTriphyophyllum peltatum by a combination of fluorescence, near infrared Fourier transform Raman microscopy, and density functional theory calculations. Biopolymers, 2006, 82, 295-300.	2.4	45
80	Synthesis and characterization of regioselective substituted tetrapyridophenazine ligands and their Ru(ii) complexes. Dalton Transactions, 2010, 39, 2359.	3.3	45
81	Light sheet Raman micro-spectroscopy. Optica, 2016, 3, 452.	9.3	45
82	Selfâ€Healing Polymer Networks Based on Reversible Michael Addition Reactions. Macromolecular Chemistry and Physics, 2016, 217, 2541-2550.	2.2	45
83	A compact microscope setup for multimodal nonlinear imaging in clinics and its application to disease diagnostics. Analyst, The, 2013, 138, 4048.	3.5	44
84	Multimodal nonlinear microscopic investigations on head and neck squamous cell carcinoma: Toward intraoperative imaging. Head and Neck, 2013, 35, E280-7.	2.0	44
85	Supercontinuum generation in a multiple-submicron-core microstructure fiber: toward limiting waveguide enhancement of nonlinear-optical processes. Applied Physics B: Lasers and Optics, 2003, 77, 299-305.	2.2	43
86	Synthesis and characterization of manganese-doped CdS nanoparticles. Physical Chemistry Chemical Physics, 2003, 5, 1639-1643.	2.8	43
87	The role of specific normal modes during non-Born-Oppenheimer dynamics: the S1-S0 internal conversion of ?-carotene interrogated on a femtosecond time-scale with coherent anti-Stokes Raman scattering. Journal of Raman Spectroscopy, 2002, 33, 844-854.	2.5	42
88	The Influence of Fluoroquinolone Drugs on the Bacterial Growth of S. epidermidis Utilizing the Unique Potential of Vibrational Spectroscopy. Journal of Physical Chemistry A, 2007, 111, 2898-2906.	2.5	42
89	IR Spectroscopic Methods for the Investigation of the CO Release from CORMs. Journal of Physical Chemistry A, 2014, 118, 5381-5390.	2.5	42
90	Device for Raman Difference Spectroscopy. Analytical Chemistry, 2007, 79, 6159-6166.	6.5	41

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91	Raman spectroscopic investigation of the antimalarial agent mefloquine. Analytical and Bioanalytical Chemistry, 2007, 387, 1749-1757.	3.7	41
92	Multimodal nonlinear microscopy of head and neck carcinoma â€" toward surgery assisting frozen section analysis. Head and Neck, 2016, 38, 1545-1552.	2.0	40
93	Derivatives of dipyrido[3,2-a:2â€²,3â€²-c]phenazine and its ruthenium complexes, influence of arylic substitution on photophysical properties. Dalton Transactions, 2006, , 2225-2231.	3.3	39
94	Zinc(II) Bisterpyridine Complexes: The Influence of the Cation on the Ï€-Conjugation between Terpyridine and the Lateral Phenyl Substituent. Journal of Physical Chemistry C, 2008, 112, 18651-18660.	3.1	39
95	The switch that wouldn't switch â€“ unexpected luminescence from a ruthenium(ii)-dppz-complex in water. Dalton Transactions, 2010, 39, 2768.	3.3	39
96	Disruption-free imaging by Raman spectroscopy reveals a chemical sphere with antifouling metabolites around macroalgae. Biofouling, 2012, 28, 687-696.	2.2	39
97	CORM-EDE1: A Highly Water-Soluble and Nontoxic Manganese-Based photoCORM with a Biogenic Ligand Sphere. Inorganic Chemistry, 2016, 55, 104-113.	4.0	39
98	Adsorption of 6-mercaptopurine and 6-mercaptopurine riboside on silver colloid: a pH dependent surface enhanced Raman spectroscopy and density functional theory study. Part I. 6-Mercaptopurine. Journal of Molecular Structure, 2005, 735-736, 103-113.	3.6	38
99	Trapped in Imidazole: How to Accumulate Multiple Photoelectrons on a Blackâ€Absorbing Ruthenium Complex. Chemistry - A European Journal, 2014, 20, 3793-3799.	3.3	38
100	Two-dimensional Raman correlation spectroscopy reveals molecular structural changes during temperature-induced self-healing in polymers based on the Dielsâ€“Alder reaction. Physical Chemistry Chemical Physics, 2015, 17, 22587-22595.	2.8	38
101	Realâ€time Raman and SRS imaging of living human macrophages reveals cellâ€toâ€cell heterogeneity and dynamics of lipid uptake. Journal of Biophotonics, 2017, 10, 1217-1226.	2.3	38
102	Multimodal nonlinear endomicroscopic imaging probe using a double-core double-clad fiber and focus-combining micro-optical concept. Light: Science and Applications, 2021, 10, 207.	16.6	38
103	Towards disentangling coupled electronicâ€“vibrational dynamics in ultrafast non-adiabatic processes. Faraday Discussions, 2000, 115, 33-48.	3.2	37
104	A Concept to Tailor Electron Delocalization: Applying QTAIM Analysis to Phenylâ^'Terpyridine Compounds. Journal of Physical Chemistry A, 2010, 114, 13163-13174.	2.5	37
105	Mesoporous silica particle embedded functional graphene oxide as an efficient platform for urea biosensing. Analytical Methods, 2014, 6, 6711-6720.	2.7	36
106	A theoretical analysis of the time-resolved femtosecond CARS spectrum of I2. Chemical Physics Letters, 1997, 281, 332-336.	2.6	35
107	Resonance Raman studies of photochemical molecular devices for multielectron storage. Journal of Raman Spectroscopy, 2008, 39, 557-559.	2.5	35
108	Ruthenium polypyridine complexes of tris-(2-pyridyl)-1,3,5-triazineâ€"unusual building blocks for the synthesis of photochemical molecular devices. Dalton Transactions, 2009, , 4012.	3.3	35

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109	Novel workflow for combining Raman spectroscopy and MALDI-MSI for tissue based studies. Analytical and Bioanalytical Chemistry, 2015, 407, 7865-7873.	3.7	35
110	Evaluation of Colloids and Activation Agents for Determination of Melamine Using UV-SERS. Journal of Physical Chemistry C, 2012, 116, 6083-6091.	3.1	34
111	Resonance Raman Scattering in Photodissociating Halomethanes. Journal of Raman Spectroscopy, 1997, 28, 445-453.	2.5	33
112	Simulation of femtosecond time-resolved four-wave mixing experiments on I2. Chemical Physics Letters, 1999, 301, 248-254.	2.6	32
113	Resonance Raman Studies of Bis(terpyridine)ruthenium(II) Amino Acid Esters and Diesters. European Journal of Inorganic Chemistry, 2009, 2009, 3119-3126.	2.0	32
114	Synthesis and Photophysical Properties of 3,8â€Disubstituted 1,10â€Phenanthrolines and Their Ruthenium(II) Complexes. European Journal of Inorganic Chemistry, 2009, 2009, 4962-4971.	2.0	32
115	Imaging the invisibleâ€"Bioorthogonal Raman probes for imaging of cells and tissues. Journal of Biophotonics, 2020, 13, e202000129.	2.3	32
116	Femtosecond Time-Resolved Dynamics of Geminate and Nongeminate Recombination:â€‰ Iodine Enclosed in the Nanocavities of a Microporous SiO2 Modification. Journal of Physical Chemistry A, 1999, 103, 3854-3863.	2.5	31
117	Excited-state processes in protochlorophyllide a â€“ a femtosecond time-resolved absorption study. Chemical Physics Letters, 2004, 397, 110-115.	2.6	31
118	FT-Raman and NIR-SERS characterization of the antimalarial drugs chloroquine and mefloquine and their interaction with hematin. Journal of Raman Spectroscopy, 2006, 37, 326-334.	2.5	31
119	Quantitative mineral analysis using Raman spectroscopy and chemometric techniques. Journal of Raman Spectroscopy, 2010, 41, 684-689.	2.5	31
120	Shapeâ€Memory Metallopolymers Based on Two Orthogonal Metalâ€“Ligand Interactions. Advanced Materials, 2021, 33, e2006655.	21.0	31
121	Raman spectroscopy breaking terrestrial barriers!. Journal of Raman Spectroscopy, 2004, 35, 429-432.	2.5	30
122	Femtosecond Time-Resolved CARS Spectroscopy on Binary Gas-Phase Mixtures:â€‰ A Theoretical and Experimental Study of the Benzene/Toluene System. Journal of Physical Chemistry A, 1998, 102, 9734-9738.	2.5	29
123	Population Dynamics in Vibrational Modes during Non-Bornâ^'Oppenheimer Processes:â€‰ CARS Spectroscopy Used as a Mode-Selective Filter. Journal of the American Chemical Society, 2002, 124, 6242-6243.	13.7	29
124	Spectroscopic detection and quantification of heme and heme degradation products. Analytical and Bioanalytical Chemistry, 2012, 404, 2819-2829.	3.7	29
125	Lightâ€Induced Dynamics in Conjugated Bis(terpyridine) Ligands â€“ A Case Study Toward Photoactive Coordination Polymers. Macromolecular Rapid Communications, 2012, 33, 481-497.	3.9	29
126	Accumulating advantages, reducing limitations: Multimodal nonlinear imaging in biomedical sciences â€“ The synergy of multiple contrast mechanisms. Journal of Biophotonics, 2013, 6, 887-904.	2.3	29

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127	Invited Article: A rigid coherent anti-Stokes Raman scattering endoscope with high resolution and a large field of view. APL Photonics, 2018, 3, .	5.7	29
128	The Excited-State Chemistry of Protochlorophyllide a: A Time-Resolved Fluorescence Study. ChemPhysChem, 2006, 7, 1727-1733.	2.1	27
129	Towards automated segmentation of cells and cell nuclei in nonlinear optical microscopy. Journal of Biophotonics, 2012, 5, 878-888.	2.3	27
130	Synthesis and photophysics of a novel photocatalyst for hydrogen production based on a tetrapyridoacridine bridging ligand. Chemical Physics, 2012, 393, 65-73.	1.9	27
131	Femtosecond Time-Resolved Pumpâ^'Probe Spectroscopy of NaI in Rare-Gas Environmentâ€. Journal of Physical Chemistry A, 1997, 101, 4852-4859.	2.5	26
132	Self-healing Functional Polymers: Optical Property Recovery of Conjugated Polymer Films by Uncatalyzed Imine Metathesis. Macromolecules, 2017, 50, 3789-3795.	4.8	26
133	Automatic labelâ€free detection of breast cancer using nonlinear multimodal imaging and the convolutional neural network ResNet50. Translational Biophotonics, 2019, 1, e201900003.	2.7	26
134	Separation of vibrational and rotational coherences with polarized femtosecond time-resolved four-wave mixing spectroscopy. Journal of Raman Spectroscopy, 2000, 31, 25-31.	2.5	25
135	The excited-state dynamics of magnesium octaethylporphyrin studied by femtosecond time-resolved four-wave-mixing. Chemical Physics Letters, 2005, 415, 94-99.	2.6	25
136	Femtosecond time-resolved spectroscopy on biological photoreceptor chromophores. Laser and Photonics Reviews, 2007, 1, 57-78.	8.7	25
137	Prediction of Electron Densities, the Respective Laplacians, and Ellipticities in Bond-Critical Points of Phenylâ^'CHâ^'Bonds via Linear Relations to Parameters of Inherently Localized CD Stretching Vibrations and¹H NMR-Shifts. Journal of Physical Chemistry A, 2009, 113, 3210-3222.	2.5	25
138	Investigation of substitution effects on novel Ruâ€“dppz complexes by Raman spectroscopy in combination with DFT methods. Journal of Raman Spectroscopy, 2010, 41, 922-932.	2.5	25
139	Remote Raman spectroscopy as a prospective tool for planetary surfaces. Journal of Raman Spectroscopy, 2004, 35, 433-440.	2.5	24
140	Investigation on the Second Part of the Electromagnetic SERS Enhancement and Resulting Fabrication Strategies of Anisotropic Plasmonic Arrays. ChemPhysChem, 2010, 11, 1918-1924.	2.1	24
141	Probing the Kinetics of a Nonadiabatic Transition Initiating Out of Vibrationally Excited as Well as Ground State Modes with Femtosecond Time-Resolved Transient Gratingsâ€. Journal of Physical Chemistry A, 2003, 107, 8355-8362.	2.5	23
142	Fiber probe for nonlinear imaging applications. Journal of Biophotonics, 2016, 9, 138-143.	2.3	23
143	Computational tissue staining of non-linear multimodal imaging using supervised and unsupervised deep learning. Biomedical Optics Express, 2021, 12, 2280.	2.9	23
144	Femtosecond pump-probe and four-wave mixing spectroscopies applied to simple molecules. Vibrational Spectroscopy, 1999, 19, 23-31.	2.2	22

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145	Ground state vibrational wave-packet and recovery dynamics studied by time-resolved CARS and pump-CARS spectroscopy. Journal of Raman Spectroscopy, 2006, 37, 397-403.	2.5	22
146	Catalytic Efficiency of a Photoenzymeâ€"An Adaptation to Natural Light Conditions. ChemPhysChem, 2012, 13, 2013-2015.	2.1	22
147	Determination of wave packet dynamics by femtosecond time-resolved pump-dump-probe and four-wave mixing techniques. Journal of Molecular Structure, 1999, 480-481, 33-43.	3.6	21
148	Population dynamics of vibrational modes in stilbene-3 upon photoexcitation to the first excited state. Chemical Physics Letters, 2005, 408, 37-43.	2.6	21
149	Increased stability in selfâ€healing polymer networks based on reversible Michael addition reactions. Journal of Applied Polymer Science, 2017, 134, .	2.6	21
150	Urethanes as reversible covalent moieties in self-healing polymers. European Polymer Journal, 2018, 104, 45-50.	5.4	21
151	Femtosecond time-resolved spectroscopy of elementary molecular dynamics. Die Naturwissenschaften, 2002, 89, 250-258.	1.6	20
152	Stable kilohertz rate molecular beam laser ablation sources. Review of Scientific Instruments, 2003, 74, 4812-4817.	1.3	20
153	The excited-state geometry of 1-hydroxy-2- acetonaphthone: a resonance Raman and quantum chemical study. Journal of Raman Spectroscopy, 2006, 37, 148-160.	2.5	20
154	Excitation of symmetric and anti-symmetric stretching motion in the continuum resonance Raman scattering from ABA-type molecules. Chemical Physics Letters, 1998, 284, 39-46.	2.6	19
155	The Excited-State Dynamics of Phycocyanobilin in Dependence on the Excitation Wavelength. ChemPhysChem, 2004, 5, 1171-1177.	2.1	19
156	Adsorption of 6-mercaptopurine and 6-mercaptopurine-ribosideon silver colloid: A pH-dependent surface-enhanced Raman spectroscopy and density functional theory study. II. 6-mercaptopurine-riboside. Biopolymers, 2005, 78, 298-310.	2.4	19
157	Derivation of Correlation Functions to Predict Bond Properties of Phenylâ^'CH Bonds Based on Vibrational and¹H NMR Spectroscopic Quantities. Journal of Physical Chemistry A, 2010, 114, 10287-10296.	2.5	19
158	Resonance Raman Spectral Imaging of Intracellular Uptake of Î²â€Carotene Loaded Poly(D,<scp>L</scp>â€lactideâ€coâ€glycolide) Nanoparticles. ChemPhysChem, 2013, 14, 155-161.	2.1	19
159	Systematic evaluation of the biological variance within the Raman based colorectal tissue diagnostics. Journal of Biophotonics, 2016, 9, 533-541.	2.3	19
160	A polyyne toxin produced by an antagonistic bacterium blinds and lyses a Chlamydomonad alga. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	19
161	CCD broadband detection technique for the spectral characterization of the inhomogeneous signal in femtosecond time-resolved four-wave mixing spectroscopy. Journal of Raman Spectroscopy, 1999, 30, 807-813.	2.5	18
162	Characterization of Diffusion Processes of Pharmacologically Relevant Molecules through Polydimethylsiloxane Membranes by Confocal Micro-resonance Raman Spectroscopy. ChemPhysChem, 2003, 4, 296-299.	2.1	18

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