

Juergen Popp

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

815
papers

26,139
citations

71
h-index

117
g-index

927
ext. papers

30,946
ext. citations

4.8
avg. IF

7.33
L-index

#	Paper	IF	Citations
815	Present and Future of Surface-Enhanced Raman Scattering. <i>ACS Nano</i> , 2020 , 14, 28-117	16.7	1000
814	Surface-enhanced Raman spectroscopy (SERS): progress and trends. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 403, 27-54	4.4	593
813	SERS: a versatile tool in chemical and biochemical diagnostics. <i>Analytical and Bioanalytical Chemistry</i> , 2008 , 390, 113-24	4.4	400
812	Recent progress in surface-enhanced Raman spectroscopy for biological and biomedical applications: from cells to clinics. <i>Chemical Society Reviews</i> , 2017 , 46, 3945-3961	58.5	340
811	Self-healing polymer coatings based on crosslinked metallosupramolecular copolymers. <i>Advanced Materials</i> , 2013 , 25, 1634-8	24	287
810	Raman spectroscopy--a prospective tool in the life sciences. <i>ChemPhysChem</i> , 2003 , 4, 14-30	3.2	254
809	Tracking heavy water (D2O) incorporation for identifying and sorting active microbial cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E194-203	11.5	244
808	Sample size planning for classification models. <i>Analytica Chimica Acta</i> , 2013 , 760, 25-33	6.6	243
807	Towards a fast, high specific and reliable discrimination of bacteria on strain level by means of SERS in a microfluidic device. <i>Lab on A Chip</i> , 2011 , 11, 1013-21	7.2	232
806	Raman and CARS microspectroscopy of cells and tissues. <i>Analyst, The</i> , 2009 , 134, 1046-57	5	229
805	Chemotaxonomic identification of single bacteria by micro-Raman spectroscopy: application to clean-room-relevant biological contaminations. <i>Applied and Environmental Microbiology</i> , 2005 , 71, 1626-37	4.8	226
804	A reproducible surface-enhanced raman spectroscopy approach. Online SERS measurements in a segmented microfluidic system. <i>Analytical Chemistry</i> , 2007 , 79, 1542-7	7.8	206
803	Vibrational spectroscopy--a powerful tool for the rapid identification of microbial cells at the single-cell level. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2009 , 75, 104-13	4.6	201
802	Micro-Raman spectroscopic identification of bacterial cells of the genus <i>Staphylococcus</i> and dependence on their cultivation conditions. <i>Analyst, The</i> , 2005 , 130, 1543-50	5	178
801	Isolation and identification of bacteria by means of Raman spectroscopy. <i>Advanced Drug Delivery Reviews</i> , 2015 , 89, 105-20	18.5	176
800	Towards a detailed understanding of bacterial metabolism--spectroscopic characterization of <i>Staphylococcus epidermidis</i> . <i>ChemPhysChem</i> , 2007 , 8, 124-37	3.2	167
799	How to pre-process Raman spectra for reliable and stable models?. <i>Analytica Chimica Acta</i> , 2011 , 704, 47-56	6.6	163

798	Tumour cell identification by means of Raman spectroscopy in combination with optical traps and microfluidic environments. <i>Lab on A Chip</i> , 2011 , 11, 1484-90	7.2	158
797	On the way to nanometer-sized information of the bacterial surface by tip-enhanced Raman spectroscopy. <i>ChemPhysChem</i> , 2006 , 7, 1428-30	3.2	155
796	Photochemical fate: the first step determines efficiency of H ₂ formation with a supramolecular photocatalyst. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 3981-4	16.4	150
795	Raman spectroscopy at the beginning of the twenty-first century. <i>Journal of Raman Spectroscopy</i> , 2006 , 37, 20-28	2.3	150
794	Raman to the limit: tip-enhanced Raman spectroscopic investigations of a single tobacco mosaic virus. <i>Journal of Raman Spectroscopy</i> , 2009 , 40, 240-243	2.3	147
793	Plasmonic nanostructures for surface enhanced spectroscopic methods. <i>Analyst, The</i> , 2016 , 141, 756-93	5	138
792	How delocalized is N,N,N',N'-tetraphenylphenylenediamine radical cation? An experimental and theoretical study on the electronic and molecular structure. <i>Journal of the American Chemical Society</i> , 2004 , 126, 7834-45	16.4	137
791	Label-Free Molecular Imaging of Biological Cells and Tissues by Linear and Nonlinear Raman Spectroscopic Approaches. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 4392-4430	16.4	130
790	Quantitative online detection of low-concentrated drugs via a SERS microfluidic system. <i>ChemPhysChem</i> , 2007 , 8, 2665-70	3.2	130
789	The application of Raman spectroscopy for the detection and identification of microorganisms. <i>Journal of Raman Spectroscopy</i> , 2016 , 47, 89-109	2.3	128
788	Developments in spontaneous and coherent Raman scattering microscopic imaging for biomedical applications. <i>Chemical Society Reviews</i> , 2016 , 45, 1819-49	58.5	122
787	Surface-enhanced Raman spectroscopy and microfluidic platforms: challenges, solutions and potential applications. <i>Analyst, The</i> , 2017 , 142, 1022-1047	5	121
786	Nonlinear microscopy, infrared, and Raman microspectroscopy for brain tumor analysis. <i>Journal of Biomedical Optics</i> , 2011 , 16, 021113	3.5	119
785	Photophysics of an intramolecular hydrogen-evolving Ru-Pd photocatalyst. <i>Chemistry - A European Journal</i> , 2009 , 15, 7678-88	4.8	119
784	Spectral unmixing and clustering algorithms for assessment of single cells by Raman microscopic imaging. <i>Theoretical Chemistry Accounts</i> , 2011 , 130, 1249-1260	1.9	118
783	Cultivation-Free Raman Spectroscopic Investigations of Bacteria. <i>Trends in Microbiology</i> , 2017 , 25, 413-424	4.4	114
782	The many facets of Raman spectroscopy for biomedical analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 699-717	4.4	112
781	Deep-UV surface-enhanced Raman scattering. <i>Journal of Raman Spectroscopy</i> , 2007 , 38, 1379-1382	2.3	112

780	Fiber-enhanced Raman multigas spectroscopy: a versatile tool for environmental gas sensing and breath analysis. <i>Analytical Chemistry</i> , 2014 , 86, 5278-85	7.8	106
779	Gold films deposited over regular arrays of polystyrene nanospheres as highly effective SERS substrates from visible to NIR. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 23982-6	3.4	105
778	Advantages and limitations of Raman spectroscopy for molecular diagnostics: an update. <i>Expert Review of Molecular Diagnostics</i> , 2015 , 15, 773-87	3.8	103
777	Raman and coherent anti-Stokes Raman scattering microspectroscopy for biomedical applications. <i>Journal of Biomedical Optics</i> , 2012 , 17, 040801	3.5	101
776	Label-free SERS in biological and biomedical applications: Recent progress, current challenges and opportunities. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018 , 197, 56-77	4.4	100
775	Culture independent Raman spectroscopic identification of urinary tract infection pathogens: a proof of principle study. <i>Analytical Chemistry</i> , 2013 , 85, 9610-6	7.8	100
774	Identification and differentiation of single cells from peripheral blood by Raman spectroscopic imaging. <i>Journal of Biophotonics</i> , 2010 , 3, 579-87	3.1	99
773	Fast and highly sensitive fiber-enhanced Raman spectroscopic monitoring of molecular H ₂ and CH ₄ for point-of-care diagnosis of malabsorption disorders in exhaled human breath. <i>Analytical Chemistry</i> , 2015 , 87, 982-8	7.8	97
772	Towards detection and identification of circulating tumour cells using Raman spectroscopy. <i>Analyst, The</i> , 2010 , 135, 3178-82	5	97
771	Employing Theories Far beyond Their Limits-The Case of the (Boguer-) Beer-Lambert Law. <i>ChemPhysChem</i> , 2016 , 17, 1948-55	3.2	94
770	A comparative Raman and CARS imaging study of colon tissue. <i>Journal of Biophotonics</i> , 2009 , 2, 303-12	3.1	91
769	Probing the enhancement mechanisms of SERS with p-aminothiophenol molecules adsorbed on self-assembled gold colloidal nanoparticles. <i>Chemical Physics Letters</i> , 2006 , 422, 127-132	2.5	91
768	Towards a specific characterisation of components on a cell surface—combined TERS-investigations of lipids and human cells. <i>Journal of Raman Spectroscopy</i> , 2009 , 40, 1452-1457	2.3	90
767	Quantitative SERS analysis of azorubine (E 122) in sweet drinks. <i>Analytical Chemistry</i> , 2015 , 87, 2840-4	7.8	85
766	Tuning of photocatalytic hydrogen production and photoinduced intramolecular electron transfer rates by regioselective bridging ligand substitution. <i>ChemPhysChem</i> , 2011 , 12, 2101-9	3.2	85
765	Making a big thing of a small cell—recent advances in single cell analysis. <i>Analyst, The</i> , 2014 , 139, 1237-73		84
764	Noninvasive imaging of intracellular lipid metabolism in macrophages by Raman microscopy in combination with stable isotopic labeling. <i>Analytical Chemistry</i> , 2012 , 84, 8549-56	7.8	83
763	SERS-based detection of biomolecules. <i>Nanophotonics</i> , 2014 , 3, 383-411	6.3	79

762	Classification of lactic acid bacteria with UV-resonance Raman spectroscopy. <i>Biopolymers</i> , 2006 , 82, 286-90		79
761	Chemotaxonomic characterisation of essential oil plants by vibrational spectroscopy measurements. <i>Vibrational Spectroscopy</i> , 2004 , 35, 81-86	2.1	79
760	Vibrational spectroscopic characterization of fluoroquinolones. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2005 , 61, 1505-17	4.4	79
759	Combined dielectrophoresis-Raman setup for the classification of pathogens recovered from the urinary tract. <i>Analytical Chemistry</i> , 2013 , 85, 10717-24	7.8	78
758	Towards a quantitative SERS approach--online monitoring of analytes in a microfluidic system with isotope-edited internal standards. <i>Journal of Biophotonics</i> , 2009 , 2, 232-42	3.1	78
757	Toward a spectroscopic hemogram: Raman spectroscopic differentiation of the two most abundant leukocytes from peripheral blood. <i>Analytical Chemistry</i> , 2012 , 84, 5335-42	7.8	77
756	Surface-enhanced Raman scattering efficiency of truncated tetrahedral Ag nanoparticle arrays mediated by electromagnetic couplings. <i>Applied Physics Letters</i> , 2006 , 88, 143121	3.4	77
755	Identification of secondary metabolites in medicinal and spice plants by NIR-FT-Raman microspectroscopic mapping. <i>Analyst, The</i> , 2004 , 129, 926-30	5	77
754	Raman spectroscopic identification of single yeast cells. <i>Journal of Raman Spectroscopy</i> , 2005 , 36, 377-379		77
753	Raman imaging of changes in the polysaccharides distribution in the cell wall during apple fruit development and senescence. <i>Planta</i> , 2016 , 243, 935-45	4.7	76
752	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. <i>Analytical Chemistry</i> , 2010 , 82, 2797-802	7.8	76
751	Direct analysis of clinical relevant single bacterial cells from cerebrospinal fluid during bacterial meningitis by means of micro-Raman spectroscopy. <i>Journal of Biophotonics</i> , 2009 , 2, 70-80	3.1	76
750	Density functional and vibrational spectroscopic analysis of β -carotene. <i>Journal of Raman Spectroscopy</i> , 2003 , 34, 413-419	2.3	76
749	All-fiber laser source for CARS microscopy based on fiber optical parametric frequency conversion. <i>Optics Express</i> , 2012 , 20, 4484-93	3.3	74
748	STXM and NanoSIMS investigations on EPS fractions before and after adsorption to goethite. <i>Environmental Science & Technology</i> , 2013 , 47, 3158-66	10.3	74
747	Multicore fiber with integrated fiber Bragg gratings for background-free Raman sensing. <i>Optics Express</i> , 2012 , 20, 20156-69	3.3	74
746	Identification of meat-associated pathogens via Raman microspectroscopy. <i>Food Microbiology</i> , 2014 , 38, 36-43	6	71
745	Identification of single eukaryotic cells with micro-Raman spectroscopy. <i>Biopolymers</i> , 2006 , 82, 312-6	2.2	71

744	Intrinsic self-healing polymers with a high E-modulus based on dynamic reversible urea bonds. <i>NPG Asia Materials</i> , 2017 , 9, e420-e420	10.3	70
743	The application of a SERS fiber probe for the investigation of sensitive biological samples. <i>Analyst, The</i> , 2004 , 129, 1193-9	5	70
742	In-vivo Raman spectroscopy: from basics to applications. <i>Journal of Biomedical Optics</i> , 2018 , 23, 1-23	3.5	70
741	Raman acoustic levitation spectroscopy of red blood cells and Plasmodium falciparum trophozoites. <i>Lab on A Chip</i> , 2007 , 7, 1125-31	7.2	69
740	The identification of microorganisms by micro-Raman spectroscopy. <i>Journal of Molecular Structure</i> , 2003 , 661-662, 363-369	3.4	69
739	Raman Based Molecular Imaging and Analytics: A Magic Bullet for Biomedical Applications!?. <i>Analytical Chemistry</i> , 2016 , 88, 133-51	7.8	68
738	Bioactive secondary metabolites with multiple activities from a fungal endophyte. <i>Microbial Biotechnology</i> , 2017 , 10, 175-188	6.3	66
737	Raman spectroscopy as a potential tool for detection of Brucella spp. in milk. <i>Applied and Environmental Microbiology</i> , 2012 , 78, 5575-83	4.8	65
736	On-line monitoring and identification of bioaerosols. <i>Analytical Chemistry</i> , 2006 , 78, 2163-70	7.8	65
735	Polymeric Halogen-Bond-Based Donor Systems Showing Self-Healing Behavior in Thin Films. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 4047-4051	16.4	63
734	Identification of water pathogens by Raman microspectroscopy. <i>Water Research</i> , 2014 , 48, 179-89	12.5	63
733	Tumor margin identification and prediction of the primary tumor from brain metastases using FTIR imaging and support vector machines. <i>Analyst, The</i> , 2013 , 138, 3983-90	5	62
732	Biochemical imaging below the diffraction limit--probing cellular membrane related structures by tip-enhanced Raman spectroscopy (TERS). <i>Journal of Biophotonics</i> , 2010 , 3, 455-61	3.1	62
731	Highly Sensitive Broadband Raman Sensing of Antibiotics in Step-Index Hollow-Core Photonic Crystal Fibers. <i>ACS Photonics</i> , 2017 , 4, 138-145	6.3	61
730	LOC-SERS: A Promising Closed System for the Identification of Mycobacteria. <i>Analytical Chemistry</i> , 2016 , 88, 7998-8004	7.8	61
729	Quartz microfluidic chip for tumour cell identification by Raman spectroscopy in combination with optical traps. <i>Analytical and Bioanalytical Chemistry</i> , 2013 , 405, 2743-6	4.4	61
728	Substitution-controlled ultrafast excited-state processes in Ru-dppz-derivatives. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 1357-68	3.6	61
727	Impact of fixation on in vitro cell culture lines monitored with Raman spectroscopy. <i>Analyst, The</i> , 2009 , 134, 1154-61	5	61

726	Characterization of bacterial growth and the influence of antibiotics by means of UV resonance Raman spectroscopy. <i>Biopolymers</i> , 2006 , 82, 306-11	2.2	61
725	Identification of primary tumors of brain metastases by Raman imaging and support vector machines. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2012 , 117, 224-232	3.8	60
724	Bioanalytical application of surface- and tip-enhanced Raman spectroscopy. <i>Engineering in Life Sciences</i> , 2012 , 12, 131-143	3.4	60
723	Cell wall investigations utilizing tip-enhanced Raman scattering. <i>Journal of Microscopy</i> , 2008 , 229, 533-9	1.9	60
722	Identification of Bacillus anthracis via Raman spectroscopy and chemometric approaches. <i>Analytical Chemistry</i> , 2012 , 84, 9873-80	7.8	59
721	Studies of silicon nanoparticles uptake and biodegradation in cancer cells by Raman spectroscopy. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016 , 12, 1931-1940	6	59
720	Fiber optic probes for linear and nonlinear Raman applications [Current trends and future development. <i>Laser and Photonics Reviews</i> , 2013 , 7, 698-731	8.3	58
719	Ultrasensitive fiber enhanced UV resonance Raman sensing of drugs. <i>Analytical Chemistry</i> , 2013 , 85, 6264-81	7.1	58
718	The molecular mechanism of dual emission in terpyridine transition metal complexes--ultrafast investigations of photoinduced dynamics. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 1606-17	3.6	58
717	A comprehensive study of classification methods for medical diagnosis. <i>Journal of Raman Spectroscopy</i> , 2009 , 40, 1759-1765	2.3	58
716	Gaussian mixture discriminant analysis for the single-cell differentiation of bacteria using micro-Raman spectroscopy. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2009 , 96, 159-171	3.8	58
715	Alignment-free, all-spliced fiber laser source for CARS microscopy based on four-wave-mixing. <i>Optics Express</i> , 2012 , 20, 21010-8	3.3	58
714	Localizing and identifying living bacteria in an abiotic environment by a combination of Raman and fluorescence microscopy. <i>Analytical Chemistry</i> , 2008 , 80, 8568-75	7.8	58
713	Vibrational spectroscopic studies to acquire a quality control method of Eucalyptus essential oils. <i>Biopolymers</i> , 2005 , 78, 237-48	2.2	58
712	Advances in optical biopsy--correlation of malignancy and cell density of primary brain tumors using Raman microspectroscopic imaging. <i>Analyst, The</i> , 2012 , 137, 5533-7	5	57
711	UV Raman spectroscopy--a technique for biological and mineralogical in situ planetary studies. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2007 , 68, 1029-35	4.4	57
710	Characterization of atherosclerotic plaque depositions by Raman and FTIR imaging. <i>Journal of Biophotonics</i> , 2013 , 6, 110-21	3.1	56
709	Polyacrylamid/silver composite particles produced via microfluidic photopolymerization for single particle-based SERS microsensors. <i>Analytical Chemistry</i> , 2013 , 85, 313-8	7.8	56

708	Toward Levofloxacin Monitoring in Human Urine Samples by Employing the LoC-SERS Technique. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 20613-20623	3.8	55
707	Enhanced Raman multigas sensing - a novel tool for control and analysis of (13)CO(2) labeling experiments in environmental research. <i>Analyst, The</i> , 2014 , 139, 3879-84	5	55
706	Droplet formation via flow-through microdevices in Raman and surface enhanced Raman spectroscopy--concepts and applications. <i>Lab on A Chip</i> , 2011 , 11, 3584-92	7.2	55
705	Identification of biotic and abiotic particles by using a combination of optical tweezers and in situ Raman spectroscopy. <i>ChemPhysChem</i> , 2004 , 5, 1159-70	3.2	55
704	SERS as an analytical tool in environmental science: The detection of sulfamethoxazole in the nanomolar range by applying a microfluidic cartridge setup. <i>Analytica Chimica Acta</i> , 2017 , 949, 1-7	6.6	54
703	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. <i>Analytical Chemistry</i> , 2012 , 84, 7845-51	7.8	54
702	The morphology of silver nanoparticles prepared by enzyme-induced reduction. <i>Beilstein Journal of Nanotechnology</i> , 2012 , 3, 404-14	3	54
701	Endoscopic fiber probe for nonlinear spectroscopic imaging. <i>Optica</i> , 2017 , 4, 496	8.6	53
700	Raman spectroscopic detection of anthrax endospores in powder samples. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 5339-42	16.4	53
699	Spectroscopic investigation of the ultrafast photoinduced dynamics in pi-conjugated terpyridines. <i>ChemPhysChem</i> , 2009 , 10, 910-9	3.2	53
698	Classification of inflammatory bowel diseases by means of Raman spectroscopic imaging of epithelium cells. <i>Journal of Biomedical Optics</i> , 2012 , 17, 076030	3.5	53
697	Probing innovative microfabricated substrates for their reproducible SERS activity. <i>ChemPhysChem</i> , 2008 , 9, 758-62	3.2	53
696	Synthesis and Characterisation of Poly(bipyridine)ruthenium Complexes as Building Blocks for Heterosupramolecular Arrays. <i>European Journal of Inorganic Chemistry</i> , 2008 , 2008, 3310-3319	2.3	53
695	Application of Vibrational Spectroscopy and Imaging to Point-of-Care Medicine: A Review. <i>Applied Spectroscopy</i> , 2018 , 72, 52-84	3.1	53
694	Unsupervised unmixing of Raman microspectroscopic images for morphochemical analysis of non-dried brain tumor specimens. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 403, 719-25	4.4	52
693	Checking and Improving Calibration of Raman Spectra using Chemometric Approaches. <i>Zeitschrift Fur Physikalische Chemie</i> , 2011 , 225, 753-764	3.1	52
692	Ultrafast excited-state excitation dynamics in a quasi-two-dimensional light-harvesting antenna based on ruthenium(II) and palladium(II) chromophores. <i>Chemistry - A European Journal</i> , 2006 , 12, 5105-15 ⁸		52
691	A shifted-excitation Raman difference spectroscopy (SERDS) evaluation strategy for the efficient isolation of Raman spectra from extreme fluorescence interference. <i>Journal of Raman Spectroscopy</i> , 2016 , 47, 198-209	2.3	52

690	High-Throughput Screening Raman Spectroscopy Platform for Label-Free Cellomics. <i>Analytical Chemistry</i> , 2018 , 90, 2023-2030	7.8	51
689	Fiber enhanced Raman gas spectroscopy. <i>TrAC - Trends in Analytical Chemistry</i> , 2018 , 103, 230-238	14.6	51
688	Optimization of Raman-spectrum baseline correction in biological application. <i>Analyst, The</i> , 2016 , 141, 2396-404	5	51
687	Confocal Micro-Raman Spectroscopy: Theory and Application to a Hybrid Polymer Coating. <i>Applied Spectroscopy</i> , 2002 , 56, 536-540	3.1	51
686	Detection of thiopurine methyltransferase activity in lysed red blood cells by means of lab-on-a-chip surface enhanced Raman spectroscopy (LOC-SERS). <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 400, 2755-61	4.4	50
685	Protochlorophyllide a: A Comprehensive Photophysical Picture. <i>ChemPhysChem</i> , 2009 , 10, 144-50	3.2	50
684	SERS as tool for the analysis of DNA-chips in a microfluidic platform. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 396, 1381-4	4.4	50
683	Three-dimensional molecular mapping of a multiple emulsion by means of CARS microscopy. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 1420-6	3.4	50
682	Time fluctuations and imaging in the SERS spectra of fungal hypha grown on nanostructured substrates. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 12916-24	3.4	50
681	The first photoexcitation step of ruthenium-based models for artificial photosynthesis highlighted by resonance Raman spectroscopy. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 6078-87	3.4	50
680	Fiber-based light sources for biomedical applications of coherent anti-Stokes Raman scattering microscopy. <i>Laser and Photonics Reviews</i> , 2015 , 9, 435-451	8.3	49
679	Protonation effects on the resonance Raman properties of a novel (terpyridine)Ru(4H-imidazole) complex: an experimental and theoretical case study. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 15580-8	3.6	49
678	Characterizing cytochrome c states--TERS studies of whole mitochondria. <i>Chemical Communications</i> , 2011 , 47, 11453-5	5.8	49
677	Dual emission from highly conjugated 2,2',6,6'-terpyridine complexes-a potential route to white emitters. <i>Macromolecular Rapid Communications</i> , 2010 , 31, 883-8	4.8	49
676	Four-wave-mixing-based optical parametric oscillator delivering energetic, tunable, chirped femtosecond pulses for non-linear biomedical applications. <i>Optics Express</i> , 2015 , 23, 23968-77	3.3	48
675	Monitoring the chemistry of self-healing by vibrational spectroscopy [Current state and perspectives. <i>Materials Today</i> , 2014 , 17, 57-69	21.8	48
674	Common mistakes in cross-validating classification models. <i>Analytical Methods</i> , 2017 , 9, 4410-4417	3.2	48
673	Low-loss single-mode guidance in large-core antiresonant hollow-core fibers. <i>Optics Letters</i> , 2015 , 40, 3432-5	3	47

672	Pseudo-HE images derived from CARS/TPEF/SHG multimodal imaging in combination with Raman-spectroscopy as a pathological screening tool. <i>BMC Cancer</i> , 2016 , 16, 534	4.8	47
671	LOC-SERS: towards point-of-care diagnostic of methotrexate. <i>Analytical Methods</i> , 2014 , 6, 3943-3947	3.2	47
670	Widely tuneable fiber optical parametric amplifier for coherent anti-Stokes Raman scattering microscopy. <i>Optics Express</i> , 2012 , 20, 26583-95	3.3	47
669	Microarray-based detection of dye-labeled DNA by SERRS using particles formed by enzymatic silver deposition. <i>ChemPhysChem</i> , 2008 , 9, 867-72	3.2	47
668	Applications of coherent Raman scattering microscopies to clinical and biological studies. <i>Analyst, The</i> , 2015 , 140, 3897-909	5	46
667	Periodic array-based substrates for surface-enhanced infrared spectroscopy. <i>Nanophotonics</i> , 2018 , 7, 39-79	6.3	46
666	Lab-on-a-Chip-Surface Enhanced Raman Scattering Combined with the Standard Addition Method: Toward the Quantification of Nitroxoline in Spiked Human Urine Samples. <i>Analytical Chemistry</i> , 2016 , 88, 9173-80	7.8	46
665	Discrimination and classification of liver cancer cells and proliferation states by Raman spectroscopic imaging. <i>Analyst, The</i> , 2014 , 139, 6036-43	5	46
664	Detection of vancomycin resistances in enterococci within 3 h hours. <i>Scientific Reports</i> , 2015 , 5, 8217	4.9	46
663	Double antiresonant hollow core fiber-guidance in the deep ultraviolet by modified tunneling leaky modes. <i>Optics Express</i> , 2014 , 22, 19131-40	3.3	46
662	Cell type-specific delivery of short interfering RNAs by dye-functionalised theranostic nanoparticles. <i>Nature Communications</i> , 2014 , 5, 5565	17.4	46
661	Different contrast information obtained from CARS and nonresonant FWM images. <i>Journal of Raman Spectroscopy</i> , 2009 , 40, 941-947	2.3	46
660	The investigation of single bacteria by means of fluorescence staining and Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2007 , 38, 369-372	2.3	46
659	Raman and Fluorescence Spectra of Single Optically Trapped Microdroplets in Emulsions. <i>Applied Spectroscopy</i> , 1994 , 48, 1166-1168	3.1	46
658	Raman spectroscopic detection of physiology changes in plasmid-bearing Escherichia coli with and without antibiotic treatment. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 400, 2763-73	4.4	45
657	Crisp and soft multivariate methods visualize individual cell nuclei in Raman images of liver tissue sections. <i>Vibrational Spectroscopy</i> , 2011 , 55, 90-100	2.1	45
656	In situ localization and structural analysis of the malaria pigment hemozoin. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 11047-56	3.4	45
655	A specific spectral signature of serum and plasma-derived extracellular vesicles for cancer screening. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017 , 13, 835-841	6	44

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