

# Juergen Popp

## List of Publications by Year in Descending Order

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**Version:** 2024-04-23

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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	Smart Error Sum Based on Hybrid Two-Trace Two-Dimensional (2T2D) Correlation Analysis.. <i>Applied Spectroscopy</i> , <b>2022</b> , 37028221077310	3.1	0
814	Intraoperative multimodal imaging <b>2022</b> , 561-581		0
813	Aptamers: Potential Diagnostic and Therapeutic Agents for Blood Diseases.. <i>Molecules</i> , <b>2022</b> , 27,	4.8	3
812	Detection of multi-resistant clinical strains of E. coli with Raman spectroscopy.. <i>Analytical and Bioanalytical Chemistry</i> , <b>2022</b> , 414, 1481-1492	4.4	4
811	Label-free Differentiation of clinical E. coli and Klebsiella isolates with Raman Spectroscopy.. <i>Journal of Biophotonics</i> , <b>2022</b> , e202200005	3.1	2
810	Real-time molecular imaging of near-surface tissue using Raman spectroscopy.. <i>Light: Science and Applications</i> , <b>2022</b> , 11, 90	16.7	1
809	Trends in pharmaceutical analysis and quality control by modern Raman spectroscopic techniques. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2022</b> , 116623	14.6	1
808	To generate a photonic nanojet outside a high refractive index microsphere illuminated by a Gaussian beam.. <i>Optics Letters</i> , <b>2022</b> , 47, 2534-2537	3	1
807	Hybrid 2D Correlation-Based Loss Function for the Correction of Systematic Errors.. <i>Analytical Chemistry</i> , <b>2021</b> ,	7.8	2
806	Raman Spectroscopy and Imaging in Bioanalytics.. <i>Analytical Chemistry</i> , <b>2021</b> ,	7.8	4
805	Assessment of shifted excitation Raman difference spectroscopy in highly fluorescent biological samples. <i>Analyst, The</i> , <b>2021</b> , 146, 6760-6767	5	0
804	Chemometric analysis in Raman spectroscopy from experimental design to machine learning-based modeling. <i>Nature Protocols</i> , <b>2021</b> , 16, 5426-5459	18.8	12
803	Raman microspectroscopy for microbiology. <i>Nature Reviews Methods Primers</i> , <b>2021</b> , 1,		9
802	Nondestructive 3D imaging and quantification of hydrated biofilm matrix by confocal Raman microscopy coupled with non-negative matrix factorization.. <i>Water Research</i> , <b>2021</b> , 210, 117973	12.5	1
801	Infrared refraction spectroscopy - Kramers-Kronig analysis revisited.. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2021</b> , 270, 120799	4.4	1
800	Multimodal nonlinear endomicroscopic imaging probe using a double-core double-clad fiber and focus-combining micro-optical concept. <i>Light: Science and Applications</i> , <b>2021</b> , 10, 207	16.7	6
799	Novel Biobased Self-Healing Ionomers Derived from Itaconic Acid Derivates. <i>Macromolecular Rapid Communications</i> , <b>2021</b> , 42, e2000636	4.8	2

798	Spatially Resolving the Enhancement Effect in Surface-Enhanced Coherent Anti-Stokes Raman Scattering by Plasmonic Doppler Gratings. <i>ACS Nano</i> , <b>2021</b> , 15, 809-818	16.7	3
797	In vivo coherent anti-Stokes Raman scattering microscopy reveals vitamin A distribution in the liver. <i>Journal of Biophotonics</i> , <b>2021</b> , 14, e202100040	3.1	2
796	Kinetic-Model-Free Analysis of Transient Absorption Spectra Enabled by 2D Correlation Analysis. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 4148-4153	6.4	1
795	Assessment of Advanced Oxidation Processes Using Zebrafish in a Non-Forced Exposure System: A Proof of Concept. <i>Processes</i> , <b>2021</b> , 9, 734	2.9	
794	Recent technological and scientific developments concerning the use of infrared spectroscopy for point-of-care applications. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2021</b> , 251, 119411	4.4	7
793	Morpho-molecular signal correlation between optical coherence tomography and Raman spectroscopy for superior image interpretation and clinical diagnosis. <i>Scientific Reports</i> , <b>2021</b> , 11, 9951	4.9	6
792	Surface-Enhanced Raman Spectroscopy to Characterize Different Fractions of Extracellular Vesicles from Control and Prostate Cancer Patients. <i>Biomedicines</i> , <b>2021</b> , 9,	4.8	2
791	Comparison of functional and discrete data analysis regimes for Raman spectra. <i>Analytical and Bioanalytical Chemistry</i> , <b>2021</b> , 413, 5633-5644	4.4	0
790	Raman O-labeling of bacteria in visible and deep UV-ranges. <i>Journal of Biophotonics</i> , <b>2021</b> , 14, e202100013	3.3	3
789	Leukocyte Activation Profile Assessed by Raman Spectroscopy Helps Diagnosing Infection and Sepsis <b>2021</b> , 3, e0394		3
788	Monitoring Deuterium Uptake in Single Bacterial Cells via Two-Dimensional Raman Correlation Spectroscopy. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 7714-7723	7.8	6
787	Ultra-compact tunable fiber laser for coherent anti-Stokes Raman imaging. <i>Journal of Raman Spectroscopy</i> , <b>2021</b> , 52, 1561-1568	2.3	1
786	Multimodal Molecular Imaging and Identification of Bacterial Toxins Causing Mushroom Soft Rot and Cavity Disease. <i>ChemBioChem</i> , <b>2021</b> , 22, 2901-2907	3.8	2
785	Hydrogen and C2-C6 Alkane Sensing in Complex Fuel Gas Mixtures with Fiber-Enhanced Raman Spectroscopy. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 10546-10552	7.8	8
784	Isolation of bacteria from artificial bronchoalveolar lavage fluid using density gradient centrifugation and their accessibility by Raman spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , <b>2021</b> , 413, 5193-5200	4.4	4
783	Probing Protein Secondary Structure Influence on Active Centers with Hetero Two-Dimensional Correlation (Resonance) Raman Spectroscopy: A Demonstration on Cytochrome C. <i>Applied Spectroscopy</i> , <b>2021</b> , 75, 1043-1052	3.1	0
782	Development of rapid colorimetric assay for the detection of Influenza A and B viruses. <i>Talanta</i> , <b>2021</b> , 221, 121468	6.2	6
781	Towards translation of surface-enhanced Raman spectroscopy (SERS) to clinical practice: Progress and trends. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2021</b> , 134, 116122	14.6	15

780	Nondestructive molecular imaging by Raman spectroscopy vs. marker detection by MALDI IMS for an early diagnosis of HCC. <i>Analyst, The</i> , <b>2021</b> , 146, 1239-1252	5	1
779	Low-cost colorimetric diagnostic screening assay for methicillin resistant <i>Staphylococcus aureus</i> . <i>Talanta</i> , <b>2021</b> , 225, 121946	6.2	3
778	Bacterial phenotype dependency from CO measured by Raman spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2021</b> , 248, 119170	4.4	2
777	Surface enhanced Raman spectroscopy-based evaluation of the membrane protein composition of the organohalide-respiring <i>Sulfurospirillum multivorans</i> . <i>Journal of Raman Spectroscopy</i> , <b>2021</b> , 52, 458-467	2.3	0
776	Aptasensor for the detection of Methicillin resistant <i>Staphylococcus aureus</i> on contaminated surfaces. <i>Biosensors and Bioelectronics</i> , <b>2021</b> , 176, 112910	11.8	7
775	Biophotonic technologies for assessment of breast tumor surgical margins-A review. <i>Journal of Biophotonics</i> , <b>2021</b> , 14, e202000280	3.1	16
774	SERS characterization of dopamine and dopamine polymerization on silver nanoparticles. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 12158-12170	3.6	3
773	Shape-Memory Metallopolymers Based on Two Orthogonal Metal-Ligand Interactions. <i>Advanced Materials</i> , <b>2021</b> , 33, e2006655	24	14
772	Characterization of a library of vitamin A-functionalized polymethacrylate-based nanoparticles for siRNA delivery. <i>Polymer Chemistry</i> , <b>2021</b> , 12, 911-925	4.9	3
771	Isolation of pathogenic bacteria from sputum samples using a 3D-printed cartridge system. <i>Analytical Methods</i> , <b>2021</b> , 13, 4884-4895	3.2	
770	FLIM data analysis based on Laguerre polynomial decomposition and machine-learning. <i>Journal of Biomedical Optics</i> , <b>2021</b> , 26,	3.5	1
769	Monitoring Changes in Biochemical and Biomechanical Properties of Collagenous Tissues Using Label-Free and Nondestructive Optical Imaging Techniques. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 3813-3821	7.8	5
768	Computational tissue staining of non-linear multimodal imaging using supervised and unsupervised deep learning. <i>Biomedical Optics Express</i> , <b>2021</b> , 12, 2280-2298	3.5	4
767	Activity and electron donor preference of two denitrifying bacterial strains identified by Raman gas spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , <b>2021</b> , 1	4.4	1
766	Stealth Effect of Short Polyoxazolines in Graft Copolymers: Minor Changes of Backbone End Group Determine Liver Cell-Type Specificity. <i>ACS Nano</i> , <b>2021</b> ,	16.7	1
765	Looking for a perfect match: multimodal combinations of Raman spectroscopy for biomedical applications. <i>Journal of Biomedical Optics</i> , <b>2021</b> , 26,	3.5	2
764	Multimodal Scanning Microscope Combining Optical Coherence Tomography, Raman Spectroscopy and Fluorescence Lifetime Microscopy for Mesoscale Label-Free Imaging of Tissue. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 11479-11487	7.8	2
763	A polyne toxin produced by an antagonistic bacterium blinds and lyses a <i>Chlamydomonas</i> alga. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	5

762	Precise Encoding of Triple-Bond Raman Scattering of Single Polymer Nanoparticles for Multiplexed Imaging Application. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 22017-22023	3.6	1
761	Precise Encoding of Triple-Bond Raman Scattering of Single Polymer Nanoparticles for Multiplexed Imaging Application. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 21846-21852	16.4	2
760	Infrared Refraction Spectroscopy. <i>Applied Spectroscopy</i> , <b>2021</b> , 75, 1526-1531	3.1	1
759	A Study in Red: The Overlooked Role of Azo-Moieties in Polymeric Carbon Nitride Photocatalysts with Strongly Extended Optical Absorption. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 17188-17202	4.8	1
758	Raman Stable Isotope Probing of Bacteria in Visible and Deep UV-Ranges. <i>Life</i> , <b>2021</b> , 11,	3	1
757	In-depth characterization of self-healing polymers based on $\pi$ -interactions. <i>Beilstein Journal of Organic Chemistry</i> , <b>2021</b> , 17, 2496-2504	2.5	2
756	Reply to comment on Improving Poor Man's Kramers-Kronig analysis and Kramers-Kronig constrained variational analysis. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2021</b> , 261, 120071	4.4	1
755	Simple and rapid peptide nanoprobe biosensor for the detection of Legionellaceae. <i>Analyst, The</i> , <b>2021</b> , 146, 3568-3577	5	
754	Dual crosslinked metallopolymers using orthogonal metal complexes as rewritable shape-memory polymers. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 15051-15058	13	2
753	Fiber-based SORS-SERDS system and chemometrics for the diagnostics and therapy monitoring of psoriasis inflammatory disease. <i>Biomedical Optics Express</i> , <b>2021</b> , 12, 1123-1135	3.5	2
752	A Model System for Sensitive Detection of Viable E. coli Bacteria Combining Direct Viability PCR and a Novel Microarray-Based Detection Approach. <i>Chemosensors</i> , <b>2021</b> , 9, 357	4	0
751	Beyond Beer's Law: Quasi-Ideal Binary Liquid Mixtures.. <i>Applied Spectroscopy</i> , <b>2021</b> , 37028211056293	3.1	3
750	Identification of inflammatory markers in eosinophilic cells of the immune system: fluorescence, Raman and CARS imaging can recognize markers but differently.. <i>Cellular and Molecular Life Sciences</i> , <b>2021</b> , 79, 1	10.3	
749	Biomacromolecular-Assembled Nanoclusters: Key Aspects for Robust Colloidal SERS Sensing. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 57302-57313	9.5	17
748	The Bouguer-Beer-Lambert Law: Shining Light on the Obscure. <i>ChemPhysChem</i> , <b>2020</b> , 21, 2028-2028	3.2	4
747	Beyond Beer's Law: Revisiting the Lorentz-Lorenz Equation. <i>ChemPhysChem</i> , <b>2020</b> , 21, 1218-1223	3.2	12
746	Imaging the invisible-Bioorthogonal Raman probes for imaging of cells and tissues. <i>Journal of Biophotonics</i> , <b>2020</b> , 13, e202000129	3.1	15
745	Automated and rapid identification of multidrug resistant Escherichia coli against the lead drugs of acylureidopenicillins, cephalosporins, and fluoroquinolones using specific Raman marker bands. <i>Journal of Biophotonics</i> , <b>2020</b> , 13, e202000149	3.1	3

744	CaF: An Ideal Substrate Material for Infrared Spectroscopy?. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 9024-9031	7.8	15
743	Deep learning for Artefact Removal in infrared spectroscopy. <i>Analyst, The</i> , <b>2020</b> , 145, 5213-5220	5	9
742	Comparison of standard and HD FT-IR with multimodal CARS/TPEF/SHG/FLIMS imaging in the detection of the early stage of pulmonary metastasis of murine breast cancer. <i>Analyst, The</i> , <b>2020</b> , 145, 4982-4990	5	2
741	Sensitive detection of organic pollutants by advanced nanostructures <b>2020</b> , 35-74		
740	Deep learning a boon for biophotonics?. <i>Journal of Biophotonics</i> , <b>2020</b> , 13, e201960186	3.1	30
739	Combined Raman and AFM detection of changes in HeLa cervical cancer cells induced by CeO nanoparticles - molecular and morphological perspectives. <i>Analyst, The</i> , <b>2020</b> , 145, 3983-3995	5	4
738	Removing interference-based effects from infrared spectra - interference fringes re-revisited. <i>Analyst, The</i> , <b>2020</b> , 145, 3385-3394	5	14
737	Liquid-liquid extraction-assisted SERS-based determination of sulfamethoxazole in spiked human urine. <i>Analytica Chimica Acta</i> , <b>2020</b> , 1109, 61-68	6.6	21
736	Differential response of liver sinusoidal endothelial cells and hepatocytes to oleic and palmitic acid revealed by Raman and CARS imaging. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>2020</b> , 1866, 165763	6.9	5
735	FLIm-Guided Raman Imaging to Study Cross-Linking and Calcification of Bovine Pericardium. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 10659-10667	7.8	7
734	Detection and Differentiation of Bacterial and Fungal Infection of Neutrophils from Peripheral Blood Using Raman Spectroscopy. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 10560-10568	7.8	14
733	Beyond Beer's Law: Spectral Mixing Rules. <i>Applied Spectroscopy</i> , <b>2020</b> , 74, 1287-1294	3.1	9
732	New methodology to process shifted excitation Raman difference spectroscopy data: a case study of pollen classification. <i>Scientific Reports</i> , <b>2020</b> , 10, 11215	4.9	7
731	PC 2D-COS: A Principal Component Base Approach to Two-Dimensional Correlation Spectroscopy. <i>Applied Spectroscopy</i> , <b>2020</b> , 74, 460-472	3.1	5
730	1. Theoretical principles of Raman spectroscopy <b>2020</b> , 1-14		1
729	3. Sample preparation for Raman microspectroscopy <b>2020</b> , 61-80		0
728	Beyond Beer's Law: Why the Index of Refraction Depends (Almost) Linearly on Concentration. <i>ChemPhysChem</i> , <b>2020</b> , 21, 707-711	3.2	17
727	Rapid Raman Spectroscopic Analysis of Stress Induced Degradation of the Pharmaceutical Drug Tetracycline. <i>Molecules</i> , <b>2020</b> , 25,	4.8	2

726	Deep learning as phase retrieval tool for CARS spectra. <i>Optics Express</i> , <b>2020</b> , 28, 21002-21024	3.3	9
725	Development and evaluation of a hand-held fiber-optic Raman probe with an integrated autofocus unit. <i>Optics Express</i> , <b>2020</b> , 28, 30760-30770	3.3	4
724	Structures for surface-enhanced nonplasmonic or hybrid spectroscopy. <i>Nanophotonics</i> , <b>2020</b> , 9, 741-760	6.3	8
723	Non-invasive Imaging Techniques: From Histology to In Vivo Imaging : Chapter of Imaging in Oncology. <i>Recent Results in Cancer Research</i> , <b>2020</b> , 216, 795-812	1.5	4
722	Perspectives of environmental health issues addressed by advanced nanostructures <b>2020</b> , 525-547		
721	Combination of Spontaneous and Coherent Raman Scattering Approaches with Other Spectroscopic Modalities for Molecular Multi-contrast Cancer Diagnosis <b>2020</b> , 325-358		
720	Detection of gas molecules by means of spectrometric and spectroscopic methods <b>2020</b> , 251-294		1
719	Mapping the binding region of aptamer targeting small molecule: Dabigatran etexilate, an anti-coagulant. <i>Talanta</i> , <b>2020</b> , 218, 121132	6.2	3
718	Towards Raman spectroscopy of urine as screening tool. <i>Journal of Biophotonics</i> , <b>2020</b> , 13, e201900143	3.1	11
717	Sample preparation for Raman microspectroscopy. <i>ChemistrySelect</i> , <b>2020</b> , 5,	1.8	1
716	Vibrational spectroscopy as a powerful tool for follow-up immunoadsorption therapy treatment of dilated cardiomyopathy - a case report. <i>Analyst, The</i> , <b>2020</b> , 145, 486-496	5	4
715	Gold nanoflowers grown in a porous Si/SiO <sub>2</sub> matrix: The fabrication process and plasmonic properties. <i>Applied Surface Science</i> , <b>2020</b> , 507, 144989	6.7	17
714	Modified PCA and PLS: Towards a better classification in Raman spectroscopyBased biological applications. <i>Journal of Chemometrics</i> , <b>2020</b> , 34, e3202	1.6	14
713	Spatiotemporal Organization of Biofilm Matrix Revealed by Confocal Raman Mapping Integrated with Non-negative Matrix Factorization Analysis. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 707-715	7.8	14
712	Discrimination between pathogenic and non-pathogenic E. coli strains by means of Raman microspectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , <b>2020</b> , 412, 8241-8247	4.4	5
711	Raman Signal Enhancement Tunable by Gold-Covered Porous Silicon Films with Different Morphology. <i>Sensors</i> , <b>2020</b> , 20,	3.8	5
710	Biochemical Characterization of Mouse Retina of an Alzheimer® Disease Model by Raman Spectroscopy. <i>ACS Chemical Neuroscience</i> , <b>2020</b> , 11, 3301-3308	5.7	4
709	The Bouguer-Beer-Lambert Law: Shining Light on the Obscure. <i>ChemPhysChem</i> , <b>2020</b> , 21, 2029-2046	3.2	44

708	Comparability of Raman Spectroscopic Configurations: A Large Scale Cross-Laboratory Study. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 15745-15756	7.8	22
707	Wide Field Spectral Imaging with Shifted Excitation Raman Difference Spectroscopy Using the Nod and Shuffle Technique. <i>Sensors</i> , <b>2020</b> , 20,	3.8	3
706	Influence of Carbon Sources on Quantification of Deuterium Incorporation in Heterotrophic Bacteria: A Raman-Stable Isotope Labeling Approach. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 11429-11437	7.8	7
705	Investigating Origins of FLIm Contrast in Atherosclerotic Lesions Using Combined FLIm-Raman Spectroscopy. <i>Frontiers in Cardiovascular Medicine</i> , <b>2020</b> , 7, 122	5.4	3
704	Laser spectroscopic technique for direct identification of a single virus I: FASTER CARS. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 27820-27824	11.5	14
703	FLIm and Raman Spectroscopy for Investigating Biochemical Changes of Bovine Pericardium upon Genipin Cross-Linking. <i>Molecules</i> , <b>2020</b> , 25,	4.8	2
702	Towards an Interpretable Classifier for Characterization of Endoscopic Mayo Scores in Ulcerative Colitis Using Raman Spectroscopy. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 13776-13784	7.8	9
701	. <i>IEEE Access</i> , <b>2020</b> , 8, 167711-167720	3.5	3
700	Eosinophils and Neutrophils-Molecular Differences Revealed by Spontaneous Raman, CARS and Fluorescence Microscopy. <i>Cells</i> , <b>2020</b> , 9,	7.9	5
699	Fiber-Enhanced Raman Gas Spectroscopy for the Study of Microbial Methanogenesis. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 12564-12571	7.8	7
698	Bladder tissue characterization using probe-based Raman spectroscopy: Evaluation of tissue heterogeneity and influence on the model prediction. <i>Journal of Biophotonics</i> , <b>2020</b> , 13, e201960025	3.1	16
697	Present and Future of Surface-Enhanced Raman Scattering. <i>ACS Nano</i> , <b>2020</b> , 14, 28-117	16.7	1000
696	3-Step flow focusing enables multidirectional imaging of bioparticles for imaging flow cytometry. <i>Lab on A Chip</i> , <b>2020</b> , 20, 1676-1686	7.2	6
695	Beer@ Law-Why Integrated Absorbance Depends Linearly on Concentration. <i>ChemPhysChem</i> , <b>2019</b> , 20, 2748-2753	3.2	32
694	Thermal illumination limits in 3D Raman microscopy: A comparison of different sample illumination strategies to obtain maximum imaging speed. <i>PLoS ONE</i> , <b>2019</b> , 14, e0220824	3.7	2
693	Multimodal Nonlinear Microscopy for Therapy Monitoring of Cold Atmospheric Plasma Treatment. <i>Micromachines</i> , <b>2019</b> , 10,	3.3	5
692	CD19-targeted, Raman tagged gold nanourchins as theranostic agents against acute lymphoblastic leukemia. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2019</b> , 184, 110478	6	11
691	New perspectives for viability studies with high-content analysis Raman spectroscopy (HCA-RS). <i>Scientific Reports</i> , <b>2019</b> , 9, 12653	4.9	8



690	Counterfeit and Substandard Test of the Antimalarial Tablet Riamet by Means of Raman Hyperspectral Multicomponent Analysis. <i>Molecules</i> , <b>2019</b> , 24,	4.8	9
689	Effect of biomimetic mineralization on enamel and dentin: A Raman and EDX analysis. <i>Dental Materials</i> , <b>2019</b> , 35, 1300-1307	5.7	15
688	Rapid Isolation and Identification of Pneumonia-Associated Pathogens from Sputum Samples Combining an Innovative Sample Preparation Strategy and Array-Based Detection. <i>ACS Omega</i> , <b>2019</b> , 4, 10362-10369	3.9	2
687	Raman spectroscopy reveals LPS-induced changes of biomolecular composition in monocytic THP-1 cells in a label-free manner. <i>Integrative Biology (United Kingdom)</i> , <b>2019</b> ,	3.7	11
686	Deviations from Beer's law on the microscale - nonadditivity of absorption cross sections. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 9793-9801	3.6	20
685	Fiber-Enhanced Raman Gas Spectroscopy for O-C-Labeling Experiments. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 7562-7569	7.8	30
684	Rapid detection of the bacterial biomarker pyocyanin in artificial sputum using a SERS-active silicon nanowire matrix covered by bimetallic noble metal nanoparticles. <i>Talanta</i> , <b>2019</b> , 202, 171-177	6.2	27
683	Raman ChemLighter: Fiber optic Raman probe imaging in combination with augmented chemical reality. <i>Journal of Biophotonics</i> , <b>2019</b> , 12, e201800447	3.1	6
682	Liquid-Core Microstructured Polymer Optical Fiber as Fiber-Enhanced Raman Spectroscopy Probe for Glucose Sensing. <i>Journal of Lightwave Technology</i> , <b>2019</b> , 37, 2981-2988	4	9
681	Isolation matters-processing blood for Raman microspectroscopic identification of bacteria. <i>Analytical and Bioanalytical Chemistry</i> , <b>2019</b> , 411, 5445-5454	4.4	13
680	High-throughput screening Raman microspectroscopy for assessment of drug-induced changes in diatom cells. <i>Analyst, The</i> , <b>2019</b> , 144, 4488-4492	5	8
679	Molecular Specific and Sensitive Detection of Pyrazinamide and Its Metabolite Pyrazinoic Acid by Means of Surface Enhanced Raman Spectroscopy Employing In Situ Prepared Colloids. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 2511	2.6	1
678	Designable Spectrometer-Free Index Sensing Using Plasmonic Doppler Gratings. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 9382-9387	7.8	4
677	Nonlinear Multimodal Imaging Characteristics of Early Septic Liver Injury in a Mouse Model of Peritonitis. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 11116-11121	7.8	9
676	Application of High-Throughput Screening Raman Spectroscopy (HTS-RS) for Label-Free Identification and Molecular Characterization of Pollen. <i>Sensors</i> , <b>2019</b> , 19,	3.8	10
675	Simulation of Transportation and Storage and Their Influence on Raman Spectra of Bacteria. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 13688-13694	7.8	11
674	Micro-Raman spectroscopy in medicine. <i>Physical Sciences Reviews</i> , <b>2019</b> , 4,	1.4	4
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177	Monitoring intra-cellular lipid metabolism in macrophages by Raman- and CARS-microscopy <b>2010</b> ,		7
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