

## List of Publications by Year in descending order

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63  
papers

2,827  
citations

81900

39  
h-index

175258

52  
g-index

63  
all docs

63  
docs citations

63  
times ranked

2027  
citing authors

#	ARTICLE	IF	CITATIONS
1	Activity and electron donor preference of two denitrifying bacterial strains identified by Raman gas spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 601-611.	3.7	3
2	Raman Spectroscopy and Imaging in Bioanalytics. <i>Analytical Chemistry</i> , 2022, 94, 86-119.	6.5	46
3	Parallelized Raman Difference Spectroscopy for the Investigation of Chemical Interactions. <i>Analytical Chemistry</i> , 2022, 94, 10346-10354.	6.5	8
4	Grasshopper herbivory immediately affects element cycling but not export rates in an N-limited grassland system. <i>Ecosphere</i> , 2021, 12, e03449.	2.2	6
5	Hydrogen and C <sub>2</sub> -C <sub>6</sub> Alkane Sensing in Complex Fuel Gas Mixtures with Fiber-Enhanced Raman Spectroscopy. <i>Analytical Chemistry</i> , 2021, 93, 10546-10552.	6.5	34
6	Response to Comment on Hydrogen and C <sub>2</sub> -C <sub>6</sub> Alkane Sensing in Complex Fuel Gas Mixtures with Fiber-Enhanced Raman Spectroscopy. <i>Analytical Chemistry</i> , 2021, 93, 16285-16287.	6.5	1
7	Recent advances in nano-photonics techniques for pharmaceutical drug monitoring with emphasis on Raman spectroscopy. <i>Nanophotonics</i> , 2020, 9, 19-37.	6.0	43
8	Fiber-Enhanced Raman Gas Spectroscopy for the Study of Microbial Methanogenesis. <i>Analytical Chemistry</i> , 2020, 92, 12564-12571.	6.5	21
9	Rapid Raman Spectroscopic Analysis of Stress Induced Degradation of the Pharmaceutical Drug Tetracycline. <i>Molecules</i> , 2020, 25, 1866.	3.8	6
10	Detection of gas molecules by means of spectrometric and spectroscopic methods. , 2020, , 251-294.		1
11	Counterfeit and Substandard Test of the Antimalarial Tablet Riamet <sup>®</sup> by Means of Raman Hyperspectral Multicomponent Analysis. <i>Molecules</i> , 2019, 24, 3229.	3.8	21
12	Characterization of fuel gases with fiber-enhanced Raman spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 7399-7408.	3.7	48
13	Fiber-Enhanced Raman Gas Spectroscopy for <sup>18</sup> O- <sup>13</sup> C-Labeling Experiments. <i>Analytical Chemistry</i> , 2019, 91, 7562-7569.	6.5	49
14	Liquid-Core Microstructured Polymer Optical Fiber as Fiber-Enhanced Raman Spectroscopy Probe for Glucose Sensing. <i>Journal of Lightwave Technology</i> , 2019, 37, 2981-2988.	4.6	22
15	Fiber-Array-Based Raman Hyperspectral Imaging for Simultaneous, Chemically-Selective Monitoring of Particle Size and Shape of Active Ingredients in Analgesic Tablets. <i>Molecules</i> , 2019, 24, 4381.	3.8	22
16	Highly Sensitive Detection of the Antibiotic Ciprofloxacin by Means of Fiber Enhanced Raman Spectroscopy. <i>Molecules</i> , 2019, 24, 4512.	3.8	20
17	OH diffusion effects at preparation of antiresonant hollow core fibers. , 2019, , .		0
18	Fiber enhanced Raman gas spectroscopy. <i>TrAC - Trends in Analytical Chemistry</i> , 2018, 103, 230-238.	11.4	74

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19	Monitoring of gas composition in a laboratory biogas plant using cavity enhanced Raman spectroscopy. <i>Analyst, The</i> , 2018, 143, 1358-1366.	3.5	49
20	Fiber enhanced Raman sensing of levofloxacin by PCF bandgap-shifting into the visible range. <i>Analytical Methods</i> , 2018, 10, 586-592.	2.7	36
21	Fiber-Enhanced Raman Sensing of Cefuroxime in Human Urine. <i>Analytical Chemistry</i> , 2018, 90, 13243-13248.	6.5	38
22	Thiosulfate- and hydrogen-driven autotrophic denitrification by a microbial consortium enriched from groundwater of an oligotrophic limestone aquifer. <i>FEMS Microbiology Ecology</i> , 2018, 94, .	2.7	56
23	Direct Raman Spectroscopic Measurements of Biological Nitrogen Fixation under Natural Conditions: An Analytical Approach for Studying Nitrogenase Activity. <i>Analytical Chemistry</i> , 2017, 89, 1117-1122.	6.5	41
24	Highly Sensitive Broadband Raman Sensing of Antibiotics in Step-Index Hollow-Core Photonic Crystal Fibers. <i>ACS Photonics</i> , 2017, 4, 138-145.	6.6	79
25	Vibrational spectroscopic characterization of arylisoquinolines by means of Raman spectroscopy and density functional theory calculations. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 29918-29926.	2.8	17
26	Analysis of Fiber-Enhanced Raman Gas Sensing Based on Raman Chemical Imaging. <i>Analytical Chemistry</i> , 2017, 89, 12269-12275.	6.5	46
27	Ultrasensitive Detection of Antiseptic Antibiotics in Aqueous Media and Human Urine Using Deep UV Resonance Raman Spectroscopy. <i>Analytical Chemistry</i> , 2017, 89, 9997-10003.	6.5	44
28	Onsite cavity enhanced Raman spectrometry for the investigation of gas exchange processes in the Earth's critical zone. <i>Analyst, The</i> , 2017, 142, 3360-3369.	3.5	41
29	Fiber enhanced Raman spectroscopic analysis as a novel method for diagnosis and monitoring of diseases related to hyperbilirubinemia and hyperbiliverdinemia. <i>Analyst, The</i> , 2016, 141, 6104-6115.	3.5	48
30	All-in-one: a versatile gas sensor based on fiber enhanced Raman spectroscopy for monitoring postharvest fruit conservation and ripening. <i>Analyst, The</i> , 2016, 141, 2023-2029.	3.5	49
31	Multigas Leakage Correction in Static Environmental Chambers Using Sulfur Hexafluoride and Raman Spectroscopy. <i>Analytical Chemistry</i> , 2015, 87, 11137-11142.	6.5	45
32	<i>Pinus sylvestris</i> switches respiration substrates under shading but not during drought. <i>New Phytologist</i> , 2015, 207, 542-550.	7.3	44
33	Microbial respiration and natural attenuation of benzene contaminated soils investigated by cavity enhanced Raman multi-gas spectroscopy. <i>Analyst, The</i> , 2015, 140, 3143-3149.	3.5	48
34	Online investigation of respiratory quotients in <i>Pinus sylvestris</i> and <i>Picea abies</i> during drought and shading by means of cavity-enhanced Raman multi-gas spectrometry. <i>Analyst, The</i> , 2015, 140, 4473-4481.	3.5	50
35	Fast and Highly Sensitive Fiber-Enhanced Raman Spectroscopic Monitoring of Molecular H <sub>2</sub> and CH <sub>4</sub> for Point-of-Care Diagnosis of Malabsorption Disorders in Exhaled Human Breath. <i>Analytical Chemistry</i> , 2015, 87, 982-988.	6.5	125
36	Raman spectroscopic investigation of <sup>13</sup> CO <sub>2</sub> labeling and leaf dark respiration of <i>Fagus sylvatica</i> L. (European beech). <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 1813-1817.	3.7	39

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37	Rapid monitoring of intermediate states and mass balance of nitrogen during denitrification by means of cavity enhanced Raman multi-gas sensing. <i>Analytica Chimica Acta</i> , 2015, 864, 39-47.	5.4	47
38	Multiscale spectroscopy using a monolithic liquid core waveguide with laterally attached fiber ports. <i>Analytica Chimica Acta</i> , 2015, 875, 1-6.	5.4	9
39	Fiber-enhanced Raman multi-gas spectroscopy: what is the potential of its application to breath analysis?. <i>Bioanalysis</i> , 2015, 7, 281-284.	1.5	46
40	Origins of modal loss of antiresonant hollow-core optical fibers in the ultraviolet. <i>Optics Express</i> , 2015, 23, 2557.	3.4	13
41	Low-loss single-mode guidance in large-core antiresonant hollow-core fibers. <i>Optics Letters</i> , 2015, 40, 3432.	3.3	59
42	Fiber array based hyperspectral Raman imaging for chemical selective analysis of malaria-infected red blood cells. <i>Analytica Chimica Acta</i> , 2015, 894, 76-84.	5.4	47
43	Double antiresonant hollow core fiber " guidance in the deep ultraviolet by modified tunneling leaky modes. <i>Optics Express</i> , 2014, 22, 19131.	3.4	61
44	Enhanced Raman multigas sensing " a novel tool for control and analysis of $^{13}\text{C}$ labeling experiments in environmental research. <i>Analyst, The</i> , 2014, 139, 3879.	3.5	63
45	Fiber-Enhanced Raman Multigas Spectroscopy: A Versatile Tool for Environmental Gas Sensing and Breath Analysis. <i>Analytical Chemistry</i> , 2014, 86, 5278-5285.	6.5	152
46	Raman Spectroscopy " An Innovative and Versatile Tool To Follow the Respirational Activity and Carbonate Biomineralization of Important Cave Bacteria. <i>Analytical Chemistry</i> , 2013, 85, 8708-8714.	6.5	48
47	Investigation of Gas Exchange Processes in Peat Bog Ecosystems by Means of Innovative Raman Gas Spectroscopy. <i>Analytical Chemistry</i> , 2013, 85, 1295-1299.	6.5	55
48	Ultrasensitive Fiber Enhanced UV Resonance Raman Sensing of Drugs. <i>Analytical Chemistry</i> , 2013, 85, 6264-6271.	6.5	75
49	Calcite Biomineralization by Bacterial Isolates from the Recently Discovered Pristine Karstic Herrenberg Cave. <i>Applied and Environmental Microbiology</i> , 2012, 78, 1157-1167.	3.1	112
50	Nondestructive Three-Dimensional Analysis of Layered Polymer Structures with Chemical Imaging. <i>Langmuir</i> , 2010, 26, 19027-19032.	3.5	37
51	Structural analysis of the antimalarial drug halofantrine by means of Raman spectroscopy and density functional theory calculations. <i>Journal of Biomedical Optics</i> , 2010, 15, 041516.	2.6	47
52	Relationship between molecular structure and Raman spectra of quinolines. <i>Journal of Molecular Structure</i> , 2009, 924-926, 301-308.	3.6	42
53	Morphology-sensitive Raman modes of the malaria pigment hemozoin. <i>Analyst, The</i> , 2009, 134, 1126.	3.5	52
54	UV Raman Imaging A Promising Tool for Astrobiology: Comparative Raman Studies with Different Excitation Wavelengths on SNC Martian Meteorites. <i>Analytical Chemistry</i> , 2007, 79, 1101-1108.	6.5	50

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55	Structural Analysis of the Anti-Malaria Active Agent Chloroquine under Physiological Conditions. Journal of Physical Chemistry B, 2007, 111, 1815-1822.	2.6	46
56	Raman acoustic levitation spectroscopy of red blood cells and Plasmodium falciparum trophozoites. Lab on A Chip, 2007, 7, 1125.	6.0	96
57	Ultrasensitive in situ Tracing of the Alkaloid Dioncophylline A in the Tropical Liana Triphyophyllum peltatum by Applying Deep-UV Resonance Raman Microscopy. Analytical Chemistry, 2007, 79, 986-993.	6.5	46
58	Device for Raman Difference Spectroscopy. Analytical Chemistry, 2007, 79, 6159-6166.	6.5	41
59	In Situ Localization and Structural Analysis of the Malaria Pigment Hemozoin. Journal of Physical Chemistry B, 2007, 111, 11047-11056.	2.6	57
60	In situ UV Resonance Raman Micro-spectroscopic Localization of the Antimalarial Quinine in Cinchona Bark. Journal of Physical Chemistry B, 2007, 111, 4171-4177.	2.6	50
61	UV Raman spectroscopy – 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
62	Raman spectroscopic investigation of the antimalarial agent mefloquine. Analytical and Bioanalytical Chemistry, 2007, 387, 1749-1757.	3.7	41
63	In vivo localization and identification of the antiplasmodial alkaloid dioncophylline A in the tropical liana Triphyophyllum 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