Yosef Raichlin

List of Publications by Year
in descending order

36	846	516215 16	476904 29
papers	citations	h-index	g-index

38	38	38	1126
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Halogen detection with molecular laser induced fluorescence. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2020, 166, 105813.	1.5	12
2	Laser-induced breakdown spectroscopy of BaF2-Tm3+. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2020, 164, 105767.	1.5	2
3	Toward the Required Detection Limits for Volatile Organic Constituents in Marine Environments with Infrared Evanescent Field Chemical Sensors. Sensors, 2019, 19, 3644.	2.1	17
4	Polarization of the laser induced plasma lasers. Optics Communications, 2019, 447, 51-54.	1.0	8
5	Laser-induced breakdown spectroscopy of Br and I molecules with alkali-earth elements. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2019, 157, 47-52.	1.5	15
6	Third harmonic generation in double-pulse laser induced air plasma. Optics Communications, 2019, 443, 63-68.	1.0	2
7	Fiber-optic evanescent wave spectroscopy (FEWS) of crystals from a urine sample as a tool for evaluating the chemical composition of kidney stones. Analytical Methods, 2019, 11, 2404-2409.	1.3	4
8	Imaging rare-earth elements in minerals by laser-induced plasma spectroscopy: Molecular emission and plasma-induced luminescence. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2019, 151, 12-19.	1.5	34
9	Fiber-optic middle infrared evanescent wave spectroscopy for early detection of melanoma. , 2019, , .		1
10	Cascade generation in Al laser induced plasma. Optics Communications, 2018, 415, 127-129.	1.0	8
11	Laser-induced time resolved luminescence of natural sylvite KCl. Journal of Luminescence, 2018, 195, 430-434.	1.5	0
12	Using Attenuated Total Reflectionâ€“Fourier Transform Infra-Red (ATR-FTIR) spectroscopy to distinguish between melanoma cells with a different metastatic potential. Scientific Reports, 2017, 7, 4381.	1.6	45
13	Fourier transform infrared spectroscopy on external perturbations inducing secondary structure changes of hemoglobin. Analyst, The, 2016, 141, 6061-6067.	1.7	20
14	High-sensitivity infrared attenuated total reflectance sensors for in situ multicomponent detection of volatile organic compounds in water. Nature Protocols, 2016, 11, 377-386.	5.5	85
15	Probing the secondary structure of bovine serum albumin during heat-induced denaturation using mid-infrared fiberoptic sensors. Analyst, The, 2015, 140, 765-770.	1.7	128
16	Flattened infrared fiber-optic sensors for the analysis of micrograms of insoluble solid particles in solution or in a dry state. Vibrational Spectroscopy, 2014, 73, 67-72.	1.2	9
17	Determination of Chlorinated Hydrocarbons in Water Using Highly Sensitive Mid-Infrared Sensor Technology. Scientific Reports, 2013, 3, 2525.	1.6	42
18	Direct quantification of aromatic hydrocarbons in geochemical fluids with a mid-infrared attenuated total reflection sensor. Organic Geochemistry, 2013, 55, 63-71.	0.9	33

#	Article	IF	Citations
19	Titelbild: IR-ATR Chemical Sensors Based on Planar Silver Halide Waveguides Coated with an Ethylene/Propylene Copolymer for Detection of Multiple Organic Contaminants in Water (Angew.) Tj ETQq1 1 0.784314 rgBT /Overlo		
20	IRâ€ATR Chemical Sensors Based on Planar Silver Halide Waveguides Coated with an Ethylene/Propylene Copolymer for Detection of Multiple Organic Contaminants in Water. Angewandte Chemie - International Edition, 2013, 52, 2265-2268.	7.2	44
21	Mid-Infrared Planar Silver Halide Waveguides with Integrated Grating Couplers. Applied Spectroscopy, 2013, 67, 1057-1063.	1.2	16
22	Infrared spectroscopic monitoring of surface effects during gas hydrate formation in the presence of detergents. Chemical Engineering Science, 2011, 66, 5497-5503.	1.9	11
23	Optimization of Fiber-Optic Evanescent Wave Spectroscopy: A Monte Carlo Approach. Applied Spectroscopy, 2009, 63, 1057-1061.	1.2	7
24	Fiber-Optic Evanescent Wave Spectroscopy in the Middle Infrared. Applied Spectroscopy, 2008, 62, 55A-72A.	1.2	81
25	The Investigation of Water Diffusion into Teflon Copolymer Revealed by Fiber-optic Evanescent Wave Spectroscopy. Journal of Physical Chemistry A, 2007, 111, 6131-6134.	1.1	4
26	Mid-Infrared Fiber-Optic Attenuated Total Reflection Spectroscopy of the Solidâ€"Liquid Phase Transition of Water. Applied Spectroscopy, 2005, 59, 460-466.	1.2	51
27	Infrared fiber optic evanescent wave spectroscopy and its applications for the detection of toxic materials in water, in situ and in real time. , 2004, , .		2
28	Infrared fiber optic evanescent wave spectroscopy: a new tool for the study of urinary calculi. , 2004, 5321, 51.		1
29	Surface-Enhanced Infrared Absorption and Amplified Spectra on Planar Silver Halide Fiber. Journal of Physical Chemistry B, 2004, 108, 12633-12636.	1.2	16
30	Investigations of the Structure of Water Using Mid-IR Fiberoptic Evanescent Wave Spectroscopy. Physical Review Letters, 2004, 93, 185703.	2.9	39
31	Infrared fiber optic spectroscopy: a novel tool for skin diagnosis. , 2004, 5321, 44.		3
32	Direct Monitoring of Soil and Water Nitrate by FTIR Based FEWS or Membrane Systems. Environmental Science & Technology, 2003, 37, 2807-2812.	4.6	43
33	Evanescent-wave infrared spectroscopy with flattened fibers as sensing elements. Optics Letters, 2003, 28, 2297.	1.7	28
34	Fiberoptic infrared spectroscopy: a novel tool for the analysis of urine and urinary salts in situ and in real time. Urology, 2003, 61, 231-235.	0.5	14
35	<title>Infrared fiber optic evanescent wave spectroscopy for the study of diffusion in the human skin</title>. , 2002, , .		9
36	<title>New applications of fiber-optic IR spectroscopy in urologic practice</title>. , 2002, , .		4