

Shai Kandler

List of Publications by Year in descending order

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37
papers

405
citations

687363

13
h-index

839539

18
g-index

37
all docs

37
docs citations

37
times ranked

330
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid determination of complex mixtures by dual-column gas chromatography with a novel stationary phase combination and spectrometric detection. <i>Journal of Chromatography A</i> , 2006, 1135, 230-240.	3.7	57
2	Fragmentation pathways and mechanisms of aromatic compounds in atmospheric pressure studied by GC-MS and DMS-MS. <i>International Journal of Mass Spectrometry</i> , 2007, 263, 137-147.	1.5	28
3	S ₀ →S ₁ transition of trans- β -methyl styrene: Vibronic structure and dynamics. <i>Journal of Chemical Physics</i> , 1995, 103, 37-47.	3.0	24
4	Ultrafast Gas Chromatographic Separation of Organophosphor and Organosulfur Compounds Utilizing a Microcountercurrent Flame Photometric Detector. <i>Analytical Chemistry</i> , 2006, 78, 6765-6773.	6.5	24
5	Detection of crop diseases using enhanced variability imagery data and convolutional neural networks. <i>Computers and Electronics in Agriculture</i> , 2022, 193, 106732.	7.7	22
6	A new method and apparatus for on-site detection of trace levels of chemical warfare agents. <i>Analytica Chimica Acta</i> , 2005, 548, 58-65.	5.4	20
7	Explosive Detection by Microthermal Analysis. <i>Journal of Energetic Materials</i> , 2008, 26, 163-180.	2.0	17
8	A REMPI study of indene and its clusters with argon and krypton. <i>Chemical Physics Letters</i> , 1995, 242, 139-146.	2.6	16
9	A REMPI study of styrene and trans- β -methylstyrene clusters in a supersonic jet. <i>Chemical Physics Letters</i> , 1995, 236, 324-335.	2.6	15
10	Model-based dense air pollution maps from sparse sensing in multi-source scenarios. <i>Environmental Modelling and Software</i> , 2020, 128, 104701.	4.5	15
11	Detection of Chemical Warfare Agents in the Presence of Interfering Materials. <i>Instrumentation Science and Technology</i> , 2003, 31, 357-375.	1.8	13
12	Hydrothermal degradation of adsorbed sulfur mustard on activated carbon. <i>Carbon</i> , 2011, 49, 3899-3906.	10.3	13
13	Real-time stand-off spatial detection and identification of gases and vapor using external-cavity quantum cascade laser open-path spectrometer. <i>Optical Engineering</i> , 2015, 54, 067103.	1.0	13
14	The photophysics of a photoreactive system in a supersonic jet. Styrene-trimethylamine. <i>Chemical Physics Letters</i> , 1996, 254, 213-222.	2.6	12
15	Styrene Clusters in a Supersonic Jet: Reactive and Nonreactive Systems. <i>Journal of Physical Chemistry A</i> , 1997, 101, 2578-2588.	2.5	12
16	Exciplex emission from styrene. Aliphatic amine adducts in a supersonic jet. <i>Chemical Physics Letters</i> , 1994, 224, 391-398.	2.6	11
17	Detection and Identification of Sub-Millimeter Films of Organic Compounds on Environmental Surfaces Using Short-Wave Infrared Hyperspectral Imaging: Algorithm Development Using a Synthetic Set of Targets. <i>IEEE Sensors Journal</i> , 2019, 19, 2657-2664.	4.7	11
18	Terahertz spectroscopy of 2,4,6-trinitrotoluene molecular solids from first principles. <i>Beilstein Journal of Organic Chemistry</i> , 2018, 14, 381-388.	2.2	10

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19	Surface-Enhanced Raman Spectroscopy of Organic Molecules Adsorbed on Metallic Nanoparticles. <i>Advances in Experimental Medicine and Biology</i> , 2012, 733, 53-61.	1.6	8
20	Spectral light-reflection data dimensionality reduction for timely detection of yellow rust. <i>Precision Agriculture</i> , 2021, 22, 267-286.	6.0	7
21	The effects of air pollution sources / sensor array configurations on the likelihood of obtaining accurate source term estimations. <i>Atmospheric Environment</i> , 2021, 246, 117754.	4.1	7
22	A MEMS-based microthermal analysis of explosive materials. <i>Sensors and Actuators A: Physical</i> , 2013, 199, 129-135.	4.1	6
23	Information Theory Solution Approach to the Air Pollution Sensor Location Allocation Problem. <i>Sensors</i> , 2022, 22, 3808.	3.8	6
24	The S0 ⁺ S1 transition of trans- β -methyl styrene. <i>Journal of Chemical Physics</i> , 1994, 101, 11082-11083.	3.0	5
25	Visual study of explosive particles during fast thermal analysis. <i>Sensors and Actuators A: Physical</i> , 2018, 283, 330-339.	4.1	5
26	Towards on-site automatic detection of noxious events in dairy cows. <i>Applied Animal Behaviour Science</i> , 2021, 236, 105260.	1.9	5
27	Binding Energies of Aromatic 1:1 Hetero-Clusters in a Supersonic Jet. <i>Israel Journal of Chemistry</i> , 1997, 37, 427-438.	2.3	4
28	Detection of hazardous vapours in a dusty environment – development of a protective module for chemical sensor using a laboratory setup for systematically simulating realistic conditions. <i>International Journal of Environmental Analytical Chemistry</i> , 2020, 100, 134-151.	3.3	4
29	Non-contact and non-destructive detection and identification of <i>Bacillus anthracis</i> inside paper envelopes. <i>Forensic Science International</i> , 2019, 301, e55-e58.	2.2	3
30	The Challenges of Prolonged Gas Sensing in the Modern Urban Environment. <i>Sensors</i> , 2020, 20, 5189.	3.8	3
31	Optimized Data Analysis Algorithm for On-Site Chemical Identification Using a Hand-Held Attenuated Total Reflection Fourier Transform Infrared (ATR FT-IR) Spectrometer. <i>Applied Spectroscopy</i> , 2013, 67, 1395-1400.	2.2	2
32	A highly efficient dust removal module for hazardous materials detector – development and testing using a laboratory setup. <i>International Journal of Environmental Analytical Chemistry</i> , 2019, , 1-16.	3.3	2
33	Optimal Wireless Distributed Sensor Network Design and Ad-Hoc Deployment in a Chemical Emergency Situation. <i>Sensors</i> , 2022, 22, 2563.	3.8	2
34	Foreground Signature Extraction for an Intimate Mixing Model in Hyperspectral Image Classification. , 2020, , .		1
35	Gas concentration mapping using sample pooling with a single detector. , 2021, , 1-1.		1
36	Liquid trace detection and identification by spectral reflectance model. <i>Optical Engineering</i> , 2019, 58, 1.	1.0	1

#	ARTICLE	IF	CITATIONS
37	Reflectance Spectra Analysis Algorithms for the Characterization of Deposits and Condensed Traces on Surfaces. , 0, , .		0