

Boris Mizaikoff

List of Publications by Year in descending order

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473
papers

12,770
citations

23567

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498
all docs

498
docs citations

498
times ranked

11213
citing authors

#	ARTICLE	IF	CITATIONS
1	Infrared Spectroscopy in Aqueous Solutions: Capabilities and Challenges. <i>Critical Reviews in Analytical Chemistry</i> , 2023, 53, 1748-1765.	3.5	8
2	Chemometric analysis of the global pattern of volatile organic compounds in the exhaled breath of patients with COVID-19, post-COVID and healthy subjects. Proof of concept for post-COVID assessment. <i>Talanta</i> , 2022, 236, 122832.	5.5	24
3	Monitoring Ozone Using Portable Substrate-Integrated Hollow Waveguide-Based Absorbance Sensors in the Ultraviolet Range. <i>ACS Measurement Science Au</i> , 2022, 2, 39-45.	4.4	11
4	Recent advances on the spectroscopic characterization of microbial biofilms: A critical review. <i>Analytica Chimica Acta</i> , 2022, 1195, 339433.	5.4	15
5	Preprocessing Strategies for Sparse Infrared Spectroscopy: A Case Study on Cartilage Diagnostics. <i>Molecules</i> , 2022, 27, 873.	3.8	9
6	Plastic Antibodies Mimicking the ACE2 Receptor for Selective Binding of SARS-CoV-2 Spike. <i>Advanced Materials Interfaces</i> , 2022, 9, 2101925.	3.7	12
7	Towards the direct detection of viral materials at the surface of protective face masks via infrared spectroscopy. <i>Scientific Reports</i> , 2022, 12, 2309.	3.3	3
8	Zirconium metal organic framework based opto-electrochemical sensor for nitrofurazone detection. <i>Journal of Electroanalytical Chemistry</i> , 2022, 909, 116124.	3.8	18
9	Plastic Antibodies Mimicking the ACE2 Receptor for Selective Binding of SARS-CoV-2 Spike (Adv. Mater.) <i>Tj ETQg</i> 1 1 0.784314 rgt 3.7	3.7	10
10	Preclassification of Broadband and Sparse Infrared Data by Multiplicative Signal Correction Approach. <i>Molecules</i> , 2022, 27, 2298.	3.8	1
11	Infrared spectroscopy is suitable for objective assessment of articular cartilage health. <i>Osteoarthritis and Cartilage Open</i> , 2022, 4, 100250.	2.0	2
12	Beta-Cyclodextrin-Decorated Magnetic Activated Carbon as a Sorbent for Extraction and Enrichment of Steroid Hormones (Estrone, 1 ² -Estradiol, Hydrocortisone and Progesterone) for Liquid Chromatographic Analysis. <i>Molecules</i> , 2022, 27, 248.	3.8	6
13	Neuropathological interpretation of stimulated Raman histology images of brain and spine tumors: part B. <i>Neurosurgical Review</i> , 2022, 45, 1721-1729.	2.4	15
14	Stimulated Raman histology in the neurosurgical workflow of a major European neurosurgical center – part A. <i>Neurosurgical Review</i> , 2022, 45, 1731-1739.	2.4	12
15	Simultaneous Infrared Spectroscopy, Raman Spectroscopy, and Luminescence Sensing: A Multispectroscopic Analytical Platform. <i>ACS Measurement Science Au</i> , 2022, 2, 157-166.	4.4	6
16	Innovative Substrate-Integrated Hollow Waveguide Coupled Attenuated Total Reflection Sensors for Quantum Cascade Laser Based Infrared Spectroscopy in Harsh Environments. <i>Applied Spectroscopy</i> , 2022, 76, 132-140.	2.2	5
17	Boosting Efficiency in Light-Driven Water Splitting by Dynamic Irradiation through Synchronizing Reaction and Transport Processes**. <i>ChemSusChem</i> , 2022, 15, .	6.8	8
18	An <i>in silico</i> predictive method to select multi-monomer combinations for peptide imprinting. <i>Journal of Materials Chemistry B</i> , 2022, 10, 6618-6626.	5.8	4

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19	A streamlined method for the fast and cost-effective detection of bacterial pathogens from positive blood cultures for the BacT/ALERT blood culture system using the Vitek MS mass spectrometer. <i>PLoS ONE</i> , 2022, 17, e0267669.	2.5	0
20	Silver-fluoropolymer (Ag-CFX) films: Kinetic study of silver release, and spectroscopic-microscopic insight into the inhibition of <i>P. fluorescens</i> biofilm formation. <i>Analytica Chimica Acta</i> , 2022, 1212, 339892.	5.4	5
21	Frontiers in Volatile Organic Compound Exhaled Breath Sensing. , 2022, , .		0
22	Analysis of sugars and sweeteners <i>via</i> terahertz time-domain spectroscopy. <i>Analytical Methods</i> , 2022, 14, 2657-2664.	2.7	4
23	Overview on VOGAS: an instrument combining two gas sensing techniques for disease diagnosis. , 2022, , .		1
24	Molecularly imprinted conducting polymer based sensor for <i>Salmonella typhimurium</i> detection. <i>Bioelectrochemistry</i> , 2022, 147, 108211.	4.6	7
25	Metabolic monitoring via on-line analysis of ¹³ C-enriched carbon dioxide in exhaled mouse breath using substrate-integrated hollow waveguide infrared spectroscopy and luminescence sensing combined with Bayesian sampling. <i>Journal of Breath Research</i> , 2021, 15, 026013.	3.0	5
26	Segregation of respirable dust for chemical and toxicological analyses. <i>Archives of Environmental and Occupational Health</i> , 2021, 76, 134-144.	1.4	0
27	Molecularly imprinted polymers for selective extraction of rosmarinic acid from <i>Rosmarinus officinalis</i> L.. <i>Food Chemistry</i> , 2021, 335, 127644.	8.2	39
28	A Novel Calibration Method for the Quantification of Respirable Particles in Mining Scenarios Using Fourier Transform Infrared Spectroscopy. <i>Applied Spectroscopy</i> , 2021, 75, 307-316.	2.2	4
29	NO _x Measurements in Vehicle Exhaust Using Advanced Deep ELM Networks. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-10.	4.7	13
30	Molecularly imprinted materials for biomedical sensing. <i>Medical Devices & Sensors</i> , 2021, 4, e10166.	2.7	12
31	Sol-gel Processing of Water-soluble Carbon Nitride Enables High-performance Photoanodes**. <i>ChemSusChem</i> , 2021, 14, 2170-2179.	6.8	16
32	Complexity of Respirable Dust Found in Mining Operations as Characterized by X-ray Diffraction and FTIR Analysis. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 383.	2.0	7
33	Modular Breath Analyzer (MBA): Introduction of a Breath Analyzer Platform Based on an Innovative and Unique, Modular eNose Concept for Breath Diagnostics and Utilization of Calibration Transfer Methods in Breath Analysis Studies. <i>Molecules</i> , 2021, 26, 3776.	3.8	4
34	Can UVA-light-activated riboflavin-induced collagen crosslinking be transferred from ophthalmology to spine surgery? A feasibility study on bovine intervertebral disc. <i>PLoS ONE</i> , 2021, 16, e0252672.	2.5	3
35	Recent Advances in Solid-Phase Extraction (SPE) Based on Molecularly Imprinted Polymers (MIPs) for Analysis of Hormones. <i>Chemosensors</i> , 2021, 9, 151.	3.6	13
36	Autologous platelet-rich fibrin (PRF) augmentation as an add-on therapy in deep surgical site infections (dSSIs) after instrumented spinal surgery: preliminary results of a single institution case series. <i>Acta Neurochirurgica</i> , 2021, 163, 2761-2767.	1.7	2

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37	Spectral Signatures of Oxidation States in a Manganese-oxo Cubane Water Oxidation Catalyst. <i>Chemistry - A European Journal</i> , 2021, 27, 17078-17086.	3.3	4
38	Epitope-imprinted polymers for biomacromolecules: Recent strategies, future challenges and selected applications. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 143, 116414.	11.4	26
39	Exploration of a Molecularly Imprinted Polymer (MIPs) as an Adsorbent for the Enrichment of Trenbolone in Water. <i>Processes</i> , 2021, 9, 186.	2.8	8
40	Activation by oxidation and ligand exchange in a molecular manganese vanadium oxide water oxidation catalyst. <i>Chemical Science</i> , 2021, 12, 12918-12927.	7.4	10
41	A facile route toward hydrophilic plasmonic copper selenide nanocrystals: new perspectives for SEIRA applications. <i>New Journal of Chemistry</i> , 2021, 45, 15753-15760.	2.8	3
42	From Light Pipes to Substrate-Integrated Hollow Waveguides for Gas Sensing: A Review. <i>ACS Measurement Science Au</i> , 2021, 1, 97-109.	4.4	9
43	Development and Characterization of Magnetic SARS-CoV-2 Peptide-Imprinted Polymers. <i>Nanomaterials</i> , 2021, 11, 2985.	4.1	14
44	Development of Silica Nanoparticle Supported Imprinted Polymers for Selective Lysozyme Recognition. <i>Nanomaterials</i> , 2021, 11, 3287.	4.1	3
45	Core-Shell Imprinted Particles for Adenovirus Binding. <i>Materials</i> , 2021, 14, 7692.	2.9	1
46	Efficient Extraction of Pyrrolizidine Alkaloids from Plants by Pressurised Liquid Extraction – A Preliminary Study. <i>Planta Medica</i> , 2020, 86, 85-90.	1.3	11
47	Strategies for ¹³ C enrichment calculation in Fourier-transform infrared CO ₂ spectra containing spectral overlapping and nonlinear abundance-amount relations utilizing response surface fits. <i>Analytica Chimica Acta</i> , 2020, 1095, 48-60.	5.4	2
48	Use of Super-Resolution Optical Microscopy To Reveal Direct Virus Binding at Hybrid Core-Shell Matrixes. <i>Analytical Chemistry</i> , 2020, 92, 3050-3057.	6.5	22
49	Enhanced Adsorptive Removal of ¹⁷ β -Estradiol from Aqueous and Wastewater Samples by Magnetic Nano-Akaganeite: Adsorption Isotherms, Kinetics, and Mechanism. <i>Processes</i> , 2020, 8, 1197.	2.8	7
50	Copper Based Organic Framework Modified Electrode for Selective and Sensitive Detection of Ciprofloxacin. <i>Electroanalysis</i> , 2020, 32, 2442-2451.	2.9	19
51	Surrogate Imprinting Strategies: Molecular Imprints via Fragments and Dummies. <i>ACS Applied Polymer Materials</i> , 2020, 2, 3714-3741.	4.4	27
52	Degeneration alters the biomechanical properties and structural composition of lateral human menisci. <i>Osteoarthritis and Cartilage</i> , 2020, 28, 1482-1491.	1.3	26
53	Monitoring Corrosion Processes via Visible Fiber-Optic Evanescent Wave Sensor. <i>Chemosensors</i> , 2020, 8, 76.	3.6	3
54	Determination of Volatile Organic Compounds in Water by Attenuated Total Reflection Infrared Spectroscopy and Diamond-Like Carbon Coated Silicon Wafers. <i>Chemosensors</i> , 2020, 8, 75.	3.6	7

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55	Hybrid Gold Nanoparticle–Polyoxovanadate Matrices: A Novel Surface Enhanced Raman/Surface Enhanced Infrared Spectroscopy Substrate. <i>ACS Omega</i> , 2020, 5, 25036-25041.	3.5	5
56	Fabrication of Magnetic Molecularly Imprinted Beaded Fibers for Rosmarinic Acid. <i>Nanomaterials</i> , 2020, 10, 1478.	4.1	13
57	An eNose-based method performing drift correction for online VOC detection under dry and humid conditions. <i>Analytical Methods</i> , 2020, 12, 4724-4733.	2.7	16
58	Impact of Glycosylation and Species Origin on the Uptake and Permeation of IgGs through the Nasal Airway Mucosa. <i>Pharmaceutics</i> , 2020, 12, 1014.	4.5	12
59	Extracting and Analyzing Pyrrolizidine Alkaloids in Medicinal Plants: A Review. <i>Toxins</i> , 2020, 12, 320.	3.4	41
60	Advances in Mid-Infrared Spectroscopy-Based Sensing Techniques for Exhaled Breath Diagnostics. <i>Molecules</i> , 2020, 25, 2227.	3.8	62
61	Characterization of metal oxide gas sensors via optical techniques. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 4575-4584.	3.7	10
62	Core Imprinting: An Alternative and Economic Approach for Depleting Pyrrolizidine Alkaloids in Herbal Extracts. <i>Planta Medica International Open</i> , 2020, 7, e26-e33.	0.5	4
63	iHWG-MOX: A Hybrid Breath Analysis System via the Combination of Substrate-Integrated Hollow Waveguide Infrared Spectroscopy with Metal Oxide Gas Sensors. <i>ACS Sensors</i> , 2020, 5, 1033-1039.	7.8	19
64	Infrared attenuated total reflection spectroscopic surface analysis of bovine tail intervertebral discs after UV light-activated riboflavin-induced collagen crosslinking. <i>Journal of Biophotonics</i> , 2020, 13, e202000110.	2.3	2
65	Surface-enhanced infrared absorption spectroscopy using silver selenide quantum dots. <i>Journal of Materials Chemistry C</i> , 2020, 8, 10448-10455.	5.5	10
66	Gallium arsenide waveguides as a platform for direct mid-infrared vibrational spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 3447-3456.	3.7	2
67	Direct infrared spectroscopy for the size-independent identification and quantification of respirable particles relative mass in mine dusts. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 3499-3508.	3.7	10
68	Lysine-Functionalized Tungsten Disulfide Quantum Dots as Artificial Enzyme Mimics for Oxidative Stress Biomarker Sensing. <i>ACS Omega</i> , 2020, 5, 1927-1937.	3.5	10
69	Exhaled breath analysis using cavity-enhanced optical techniques: a review. <i>Journal of Breath Research</i> , 2020, 14, 043001.	3.0	16
70	Development of a Selective Adsorbing Material for Binding of Pyrrolizidine Alkaloids in Herbal Extracts, Based on Molecular Group Imprinting. <i>Planta Medica</i> , 2019, 85, 1107-1113.	1.3	3
71	An Innovative Modular eNose System Based on a Unique Combination of Analog and Digital Metal Oxide Sensors. <i>ACS Sensors</i> , 2019, 4, 2277-2281.	7.8	22
72	Improved In Vitro Model for Intranasal Mucosal Drug Delivery: Primary Olfactory and Respiratory Epithelial Cells Compared with the Permanent Nasal Cell Line RPMI 2650. <i>Pharmaceutics</i> , 2019, 11, 367.	4.5	43

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73	Optimizing the Analytical Performance of Substrate-Integrated Hollow Waveguides: Experiment and Simulation. <i>Applied Spectroscopy</i> , 2019, 73, 1451-1460.	2.2	1
74	Infrared attenuated total reflection and 2D fluorescence spectroscopy for the discrimination of differently aggregated monoclonal antibodies. <i>Analyst, The</i> , 2019, 144, 6334-6341.	3.5	0
75	A Novel Modular System for Breath Analysis Using Temperature Modulated MOX Sensors. <i>Proceedings (mdpi)</i> , 2019, 14, .	0.2	8
76	Hybrid Analytical Platform Based on Field-Asymmetric Ion Mobility Spectrometry, Infrared Sensing, and Luminescence-Based Oxygen Sensing for Exhaled Breath Analysis. <i>Sensors</i> , 2019, 19, 2653.	3.8	6
77	Surface Imprinted Micro- and Nanoparticles. <i>Comprehensive Analytical Chemistry</i> , 2019, , 153-191.	1.3	3
78	Synthesis of surface imprinted core-shell nanospheres for the selective determination of asparaginase. <i>Analytical Methods</i> , 2019, 11, 4034-4043.	2.7	10
79	Graphene-Based Surface Enhanced Vibrational Spectroscopy: Recent Developments, Challenges, and Applications. <i>ACS Photonics</i> , 2019, 6, 2182-2197.	6.6	46
80	Toward the Required Detection Limits for Volatile Organic Constituents in Marine Environments with Infrared Evanescent Field Chemical Sensors. <i>Sensors</i> , 2019, 19, 3644.	3.8	17
81	Corrosion Detection by Infrared Attenuated Total Reflection Spectroscopy via Diamond-Like Carbon-Coated Silicon Wafers and Iron-Sensitive Dyes. <i>Sensors</i> , 2019, 19, 3373.	3.8	6
82	Selective Chemical Enhancement via Graphene Oxide in Infrared Attenuated Total Reflection Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2019, 123, 25286-25293.	3.1	5
83	Cyclic Changes in the Amide Bands Within <i>Escherichia coli</i> Biofilms Monitored Using Real-Time Infrared Attenuated Total Reflection Spectroscopy (IR-ATR). <i>Applied Spectroscopy</i> , 2019, 73, 424-432.	2.2	20
84	Characterisation of thin boron-doped diamond films using Raman spectroscopy and chemometrics. <i>Analytical Methods</i> , 2019, 11, 582-586.	2.7	11
85	Electrochemical detection and photocatalytic performance of MoS ₂ /TiO ₂ nanocomposite against pharmaceutical contaminant: Paracetamol. <i>Sensing and Bio-Sensing Research</i> , 2019, 24, 100288.	4.2	32
86	Mid-infrared GaAs/AlGaAs micro-ring resonators characterized via thermal tuning. <i>RSC Advances</i> , 2019, 9, 8594-8599.	3.6	13
87	Surface analysis of sheep menisci after meniscectomy via infrared attenuated total reflection spectroscopy. <i>Journal of Biophotonics</i> , 2019, 12, e201800429.	2.3	3
88	Recent advances on core-shell magnetic molecularly imprinted polymers for biomacromolecules. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 114, 202-217.	11.4	138
89	Advances in imprinting strategies for selective virus recognition a review. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 114, 218-232.	11.4	61
90	Analytical performance of 1/4-groove silicon attenuated total reflection waveguides. <i>Analyst, The</i> , 2019, 144, 3398-3404.	3.5	16

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91	Selective virus capture via hexon imprinting. <i>Materials Science and Engineering C</i> , 2019, 99, 1099-1104.	7.3	16
92	Machine learning algorithms for the automated classification of contaminated maize at regulatory limits via infrared attenuated total reflection spectroscopy. <i>World Mycotoxin Journal</i> , 2019, 12, 113-122.	1.4	10
93	Quantitative Analysis of Gas Phase IR Spectra Based on Extreme Learning Machine Regression Model. <i>Sensors</i> , 2019, 19, 5535.	3.8	11
94	On-Chip Infrared Sensor Technologies for Chem/Bio Diagnostics: Quo Vadis?. , 2019, , .		0
95	Nanoparticle Tracking of Adenovirus by Light Scattering and Fluorescence Detection. <i>Human Gene Therapy Methods</i> , 2019, 30, 235-244.	2.1	10
96	Surface-enhanced infrared attenuated total reflection spectroscopy via carbon nanodots for small molecules in aqueous solution. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 1863-1871.	3.7	10
97	Cascade laser sensing concepts for advanced breath diagnostics. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 1679-1686.	3.7	19
98	Enhanced hydrothermal stability of Cu MOF by post synthetic modification with amino acids. <i>Vacuum</i> , 2019, 164, 449-457.	3.5	75
99	Synthesis and application of molecularly imprinted polymers for trypsin piezoelectric sensors. <i>Sensors and Actuators B: Chemical</i> , 2019, 280, 272-279.	7.8	51
100	Real-Time and Simultaneous Monitoring of NO, NO, and NO Using Substrate-Integrated Hollow Waveguides Coupled to a Compact Fourier Transform Infrared (FT-IR) Spectrometer. <i>Applied Spectroscopy</i> , 2019, 73, 98-103.	2.2	16
101	Graphene-Enhanced Spectro-Electrochemistry on Boron-Doped Diamond Waveguides. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
102	iBEAM: substrate-integrated hollow waveguides for efficient laser beam combining. <i>Optics Express</i> , 2019, 27, 23059.	3.4	4
103	Mid-infrared sensor for hydrocarbon monitoring: the influence of salinity, matrix and aging on hydrocarbon-polymer partitioning. <i>Analytical Methods</i> , 2018, 10, 1516-1522.	2.7	9
104	Efficient prediction of suitable functional monomers for molecular imprinting via local density of states calculations. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 13153-13158.	2.8	9
105	Virtually imprinted polymers (VIPs): understanding molecularly templated materials via molecular dynamics simulations. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 13145-13152.	2.8	19
106	Determining the Partial Pressure of Volatile Components via Substrate-Integrated Hollow Waveguide Infrared Spectroscopy with Integrated Microfluidics. <i>Analytical Chemistry</i> , 2018, 90, 4445-4451.	6.5	18
107	Hydrogel-Embedded Model Photocatalytic System Investigated by Raman and IR Spectroscopy Assisted by Density Functional Theory Calculations and Two-Dimensional Correlation Analysis. <i>Journal of Physical Chemistry A</i> , 2018, 122, 2677-2687.	2.5	7
108	Independent Actuation of Two-Tailed Microrobots. <i>IEEE Robotics and Automation Letters</i> , 2018, 3, 1703-1710.	5.1	43

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109	Enhanced Selectivity by Passivation: Molecular Imprints for Viruses with Exceptional Binding Properties. <i>Analytical Chemistry</i> , 2018, 90, 5576-5585.	6.5	36
110	Online monitoring of carbon dioxide and oxygen in exhaled mouse breath via substrate-integrated hollow waveguide Fourier-transform infrared-luminescence spectroscopy. <i>Journal of Breath Research</i> , 2018, 12, 036018.	3.0	7
111	Understanding the viral load during the synthesis and after rebinding of virus imprinted particles <i>via</i> real-time quantitative PCR. <i>Analyst, The</i> , 2018, 143, 2616-2622.	3.5	11
112	Versatile Analytical Platform Based on Graphene-Enhanced Infrared Attenuated Total Reflection Spectroscopy. <i>ACS Photonics</i> , 2018, 5, 2160-2167.	6.6	14
113	A Hyphenated Preconcentrator-Infrared-Hollow-Waveguide Sensor System for N ₂ O Sensing. <i>Scientific Reports</i> , 2018, 8, 5909.	3.3	11
114	Inhibitor-assisted synthesis of molecularly imprinted microbeads for protein recognition. <i>Analytical Methods</i> , 2018, 10, 997-1005.	2.7	8
115	Ion beam sputtering deposition of silver nanoparticles and TiO _x /ZnO nanocomposites for use in surface enhanced vibrational spectroscopy (SERS and SEIRAS). <i>Mikrochimica Acta</i> , 2018, 185, 153.	5.0	22
116	Synthesis and characterization of porous surface molecularly imprinted silica microsphere for selective extraction of ascorbic acid. <i>Microporous and Mesoporous Materials</i> , 2018, 264, 28-34.	4.4	16
117	Chem/bio sensing with non-classical light and integrated photonics. <i>Analyst, The</i> , 2018, 143, 593-605.	3.5	18
118	Emerging biosensor platforms for the assessment of water-borne pathogens. <i>Analyst, The</i> , 2018, 143, 359-373.	3.5	69
119	Selective Navigation of Bisphenolâ€A from Water to a Polarity Tuned Porous Molecularly Imprinted Polymer. <i>ChemistrySelect</i> , 2018, 3, 12223-12233.	1.5	4
120	Nanomaterials: Characterization Methods. , 2018, , 98-98.		0
121	A Novel Modular eNose System Based on Commercial MOX Sensors to Detect Low Concentrations of VOCs for Breath Gas Analysis. <i>Proceedings (mdpi)</i> , 2018, 2, .	0.2	7
122	Analysis of human menisci degeneration <i>via</i> infrared attenuated total reflection spectroscopy. <i>Analyst, The</i> , 2018, 143, 5023-5029.	3.5	5
123	Selective binding of matrix metalloproteases MMP-9 and MMP-12 to inhibitor-assisted thermolysin-imprinted beads. <i>RSC Advances</i> , 2018, 8, 32387-32394.	3.6	4
124	Portable combination of Fourier transform infrared spectroscopy and differential mobility spectrometry for advanced vapor phase analysis. <i>Analyst, The</i> , 2018, 143, 5683-5691.	3.5	11
125	Advanced Photonic Sensors Based on Interband Cascade Lasers for Real-Time Mouse Breath Analysis. <i>ACS Sensors</i> , 2018, 3, 1743-1749.	7.8	18
126	Multi-phase real-time monitoring of oxygen evolution enables <i>in operando</i> water oxidation catalysis studies. <i>Sustainable Energy and Fuels</i> , 2018, 2, 1974-1978.	4.9	25

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127	Selective Binding of Inhibitor-Assisted Surface-Imprinted Core/Shell Microbeads in Protein Mixtures. <i>ChemistrySelect</i> , 2018, 3, 4277-4282.	1.5	7
128	Gold-nanostar-based SERS substrates for studying protein aggregation processes. <i>Analyst, The</i> , 2018, 143, 5103-5111.	3.5	32
129	Infrared spectroscopy based on broadly tunable quantum cascade lasers and polycrystalline diamond waveguides. <i>Analyst, The</i> , 2018, 143, 5112-5119.	3.5	24
130	Horizontal black lipid bilayer membranes for studying pore-forming toxins. <i>Analytical Methods</i> , 2018, 10, 3153-3161.	2.7	4
131	Polycrystalline Diamond Thin-Film Waveguides for Mid-Infrared Evanescent Field Sensors. <i>ACS Omega</i> , 2018, 3, 6190-6198.	3.5	14
132	Development of a diamond waveguide sensor for sensitive protein analysis using IR quantum cascade lasers. , 2018, , .		5
133	Infrared On-Chip Photonics: Towards Precision Biodiagnostics. , 2018, , .		0
134	Mid-infrared fiber-optic evanescent field spectroscopy for in situ monitoring of tetrahydrofuran hydrate formation and dissociation. <i>Analyst, The</i> , 2017, 142, 740-744.	3.5	4
135	Portable Infrared Laser Spectroscopy for On-site Mycotoxin Analysis. <i>Scientific Reports</i> , 2017, 7, 44028.	3.3	32
136	Towards enhanced optical sensor performance: SEIRA and SERS with plasmonic nanostars. <i>Analyst, The</i> , 2017, 142, 951-958.	3.5	49
137	Voltammetric Determination of Valaciclovir Using a Molecularly Imprinted Polymer Modified Carbon Paste Electrode. <i>Electroanalysis</i> , 2017, 29, 1388-1399.	2.9	16
138	Molecularly imprinted core-shell hybrid microspheres for the selective extraction of vanillin. <i>Analytical Methods</i> , 2017, 9, 2883-2889.	2.7	19
139	Response-surface fits and calibration transfer for the correction of the oxygen effect in the quantification of carbon dioxide via FTIR spectroscopy. <i>Analytica Chimica Acta</i> , 2017, 972, 16-27.	5.4	9
140	Focused ion beam-assisted fabrication of soft high-aspect ratio silicon nanowire atomic force microscopy probes. <i>Ultramicroscopy</i> , 2017, 179, 24-32.	1.9	20
141	Silanization of Sapphire Surfaces for Optical Sensing Applications. <i>ACS Sensors</i> , 2017, 2, 522-530.	7.8	2
142	Towards label-free mid-infrared protein assays: in-situ formation of bare gold nanoparticles for surface enhanced infrared absorption spectroscopy of bovine serum albumin. <i>Mikrochimica Acta</i> , 2017, 184, 453-462.	5.0	15
143	polyHWG: 3D Printed Substrate-Integrated Hollow Waveguides for Mid-Infrared Gas Sensing. <i>ACS Sensors</i> , 2017, 2, 1700-1705.	7.8	15
144	Diamond Waveguides for Infrared Spectroscopy and Sensing. <i>Springer Series on Chemical Sensors and Biosensors</i> , 2017, , 87-117.	0.5	2

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145	FIB and MIP: understanding nanoscale porosity in molecularly imprinted polymers via 3D FIB/SEM tomography. <i>Nanoscale</i> , 2017, 9, 14327-14334.	5.6	16
146	Infrared spectroscopy on the role of surfactants during methane hydrate formation. <i>RSC Advances</i> , 2017, 7, 39109-39117.	3.6	10
147	Inhibiting <i>P. fluorescens</i> biofilms with fluoropolymer-embedded silver nanoparticles: an in-situ spectroscopic study. <i>Scientific Reports</i> , 2017, 7, 11870.	3.3	30
148	Surface enhanced infrared absorption spectroscopy based on gold nanostars and spherical nanoparticles. <i>Analytica Chimica Acta</i> , 2017, 990, 141-149.	5.4	45
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