

Boris Mizaikoff

List of Publications by Year in descending order

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473
papers

12,770
citations

23567

58
h-index

54911

84
g-index

498
all docs

498
docs citations

498
times ranked

11213
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Integrating an Ultramicroelectrode in an AFM Cantilever: A Combined Technology for Enhanced Information. <i>Analytical Chemistry</i> , 2001, 73, 2491-2500. | 6.5 | 301 |
| 2 | Molecularly imprinted polymers' potential and challenges in analytical chemistry. <i>Analytica Chimica Acta</i> , 2005, 534, 31-39. | 5.4 | 260 |
| 3 | Advances in Mid-Infrared Spectroscopy for Chemical Analysis. <i>Annual Review of Analytical Chemistry</i> , 2016, 9, 45-68. | 5.4 | 230 |
| 4 | Advanced Solid Phase Extraction Using Molecularly Imprinted Polymers for the Determination of Quercetin in Red Wine. <i>Journal of Agricultural and Food Chemistry</i> , 2002, 50, 1804-1808. | 5.2 | 176 |
| 5 | The role of conditioning film formation and surface chemical changes on <i>Xylella fastidiosa</i> adhesion and biofilm evolution. <i>Journal of Colloid and Interface Science</i> , 2011, 359, 289-295. | 9.4 | 171 |
| 6 | Integrated AFM-SECM in Tapping Mode: Simultaneous Topographical and Electrochemical Imaging of Enzyme Activity. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 3238-3240. | 13.8 | 150 |
| 7 | Waveguide-enhanced mid-infrared chem/bio sensors. <i>Chemical Society Reviews</i> , 2013, 42, 8683. | 38.1 | 142 |
| 8 | Degradation of Amine-Based Water Treatment Polymers during Chloramination as <i>N-Nitrosodimethylamine (NDMA)</i> Precursors. <i>Environmental Science & Technology</i> , 2009, 43, 1360-1366. | 10.0 | 140 |
| 9 | Infrared Attenuated Total Reflectance Spectroscopy: An Innovative Strategy for Analyzing Mineral Components in Energy Relevant Systems. <i>Scientific Reports</i> , 2014, 4, 6764. | 3.3 | 140 |
| 10 | Application of multivariate data-analysis techniques to biomedical diagnostics based on mid-infrared spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 391, 1641-1654. | 3.7 | 139 |
| 11 | 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 |
| 12 | Molecularly imprinted micro and nanospheres for the selective recognition of 17β -estradiol. <i>Biosensors and Bioelectronics</i> , 2006, 21, 1943-1951. | 10.1 | 133 |
| 13 | Molecularly Imprinted Polymers and Infrared Evanescent Wave Spectroscopy. A Chemical Sensors Approach. <i>Analytical Chemistry</i> , 1999, 71, 4786-4791. | 6.5 | 128 |
| 14 | Probing the secondary structure of bovine serum albumin during heat-induced denaturation using mid-infrared fiberoptic sensors. <i>Analyst</i> , 2015, 140, 765-770. | 3.5 | 128 |
| 15 | Peer Reviewed: Mid-IR Fiber-Optic Sensors. <i>Analytical Chemistry</i> , 2003, 75, 258 A-267 A. | 6.5 | 122 |
| 16 | Amperometric ATP biosensor based on polymer entrapped enzymes. <i>Biosensors and Bioelectronics</i> , 2004, 19, 1301-1307. | 10.1 | 116 |
| 17 | PolyDADMAC and Dimethylamine as Precursors of <i>N-Nitrosodimethylamine</i> during Ozonation: Reaction Kinetics and Mechanisms. <i>Environmental Science & Technology</i> , 2011, 45, 4353-4359. | 10.0 | 116 |
| 18 | In-Situ AFM Studies of the Phase-Transition Behavior of Single Thermoresponsive Hydrogel Particles. <i>Langmuir</i> , 2007, 23, 130-137. | 3.5 | 109 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Simultaneous Quantitative Determination of Benzene, Toluene, and Xylenes in Water Using Mid-Infrared Evanescent Field Spectroscopy. <i>Analytical Chemistry</i> , 2004, 76, 2643-2648. | 6.5 | 99 |
| 20 | Mid-infrared spectroscopy for protein analysis: potential and challenges. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 2875-2889. | 3.7 | 96 |
| 21 | Towards the rational development of molecularly imprinted polymers: ¹ H NMR studies on hydrophobicity and ion-pair interactions as driving forces for selectivity. <i>Biosensors and Bioelectronics</i> , 2005, 20, 1884-1893. | 10.1 | 94 |
| 22 | Advances in the analysis of mycotoxins and its quality assurance. <i>Food Additives and Contaminants</i> , 2005, 22, 345-353. | 2.0 | 94 |
| 23 | Capturing molecules with templated materials – Analysis and rational design of molecularly imprinted polymers. <i>Analytica Chimica Acta</i> , 2006, 578, 50-58. | 5.4 | 94 |
| 24 | FIB/SEM tomography with TEM-like resolution for 3D imaging of high-pressure frozen cells. <i>Histochemistry and Cell Biology</i> , 2012, 138, 549-556. | 1.7 | 93 |
| 25 | Toward On-Chip Mid-Infrared Sensors. <i>Analytical Chemistry</i> , 2016, 88, 5562-5573. | 6.5 | 92 |
| 26 | Substrate-Integrated Hollow Waveguides: A New Level of Integration in Mid-Infrared Gas Sensing. <i>Analytical Chemistry</i> , 2013, 85, 11205-11210. | 6.5 | 89 |
| 27 | High-sensitivity infrared attenuated total reflectance sensors for in situ multicomponent detection of volatile organic compounds in water. <i>Nature Protocols</i> , 2016, 11, 377-386. | 12.0 | 85 |
| 28 | Mapping of enzyme activity by detection of enzymatic products during AFM imaging with integrated SECM – AFM probes. <i>Ultramicroscopy</i> , 2004, 100, 127-134. | 1.9 | 82 |
| 29 | AFM-Tip-Integrated Amperometric Microbiosensors: High-Resolution Imaging of Membrane Transport. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 3419-3422. | 13.8 | 81 |
| 30 | Breath Analysis with Broadly Tunable Quantum Cascade Lasers. <i>Analytical Chemistry</i> , 2013, 85, 2697-2702. | 6.5 | 81 |
| 31 | Improving methods of analysis for mycotoxins: molecularly imprinted polymers for deoxynivalenol and zearalenone. <i>Food Additives and Contaminants</i> , 2003, 20, 386-395. | 2.0 | 80 |
| 32 | Recent advances on noncovalent molecular imprints for affinity separations. <i>Journal of Separation Science</i> , 2007, 30, 1794-1805. | 2.5 | 80 |
| 33 | Mid-infrared evanescent wave sensors - a novel approach for subsea monitoring. <i>Measurement Science and Technology</i> , 1999, 10, 1185-1194. | 2.6 | 79 |
| 34 | Molecular imprinting and solid phase extraction of flavonoid compounds. <i>Bioseparation</i> , 2001, 10, 379-387. | 0.7 | 78 |
| 35 | Analyzing the Mechanisms of Selectivity in Biomimetic Self-Assemblies via IR and NMR Spectroscopy of Prepolymerization Solutions and Molecular Dynamics Simulations. <i>Analytical Chemistry</i> , 2005, 77, 5196-5204. | 6.5 | 77 |
| 36 | Enhanced hydrothermal stability of Cu MOF by post synthetic modification with amino acids. <i>Vacuum</i> , 2019, 164, 449-457. | 3.5 | 75 |

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|----|---|------|-----------|
| 37 | Anatomy of a successful imprint: Analysing the recognition mechanisms of a molecularly imprinted polymer for quercetin. <i>Biosensors and Bioelectronics</i> , 2006, 21, 1383-1392. | 10.1 | 73 |
| 38 | Combined scanning electrochemical atomic force microscopy for tapping mode imaging. <i>Applied Physics Letters</i> , 2003, 82, 1592-1594. | 3.3 | 72 |
| 39 | Recent advances on the characterization of nanoparticles using infrared spectroscopy. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 84, 97-106. | 11.4 | 72 |
| 40 | Midinfrared sensors meet nanotechnology: Trace gas sensing with quantum cascade lasers inside photonic band-gap hollow waveguides. <i>Applied Physics Letters</i> , 2005, 86, 194102. | 3.3 | 71 |
| 41 | Surface-Enhanced Vibrational Spectroscopy: A New Tool in Chemical IR Sensing?. <i>Applied Spectroscopy</i> , 1997, 51, 495-503. | 2.2 | 70 |
| 42 | Label-Free DNA Detection Based on Modified Conducting Polypyrrole Films at Microelectrodes. <i>Analytical Chemistry</i> , 2006, 78, 1139-1145. | 6.5 | 70 |
| 43 | Ultra-sensitive mid-infrared evanescent field sensors combining thin-film strip waveguides with quantum cascade lasers. <i>Analyst, The</i> , 2012, 137, 2322. | 3.5 | 70 |
| 44 | Monitoring of hydrogen sulfide via substrate-integrated hollow waveguide mid-infrared sensors in real-time. <i>Analyst, The</i> , 2014, 139, 198-203. | 3.5 | 70 |
| 45 | Label-Free DNA Detection of Hepatitis C Virus Based on Modified Conducting Polypyrrole Films at Microelectrodes and Atomic Force Microscopy Tip-Integrated Electrodes. <i>Analytical Chemistry</i> , 2008, 80, 237-245. | 6.5 | 69 |
| 46 | Potential and Challenges for Mid-Infrared Sensors in Breath Diagnostics. <i>IEEE Sensors Journal</i> , 2010, 10, 145-158. | 4.7 | 69 |
| 47 | Emerging biosensor platforms for the assessment of water-borne pathogens. <i>Analyst, The</i> , 2018, 143, 359-373. | 3.5 | 69 |
| 48 | Infrared fiber-optical chemical sensors with reactive surface coatings. <i>Sensors and Actuators B: Chemical</i> , 1995, 29, 58-63. | 7.8 | 68 |
| 49 | Biomacromolecule template-based molecularly imprinted polymers with an emphasis on their synthesis strategies: a review. <i>Polymers for Advanced Technologies</i> , 2016, 27, 1124-1142. | 3.2 | 68 |
| 50 | Fabrication and Characterization of Molecular Beam Epitaxy Grown Thin-Film GaAs Waveguides for Mid-Infrared Evanescent Field Chemical Sensing. <i>Analytical Chemistry</i> , 2006, 78, 4224-4227. | 6.5 | 66 |
| 51 | Miniaturized mid-infrared sensor technologies. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 390, 231-237. | 3.7 | 65 |
| 52 | Investigating the mechanisms of 17β -estradiol imprinting by computational prediction and spectroscopic analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 389, 423-431. | 3.7 | 64 |
| 53 | Piezoelectric sensors using molecularly imprinted nanospheres for the detection of antibiotics. <i>Sensors and Actuators B: Chemical</i> , 2016, 225, 199-208. | 7.8 | 64 |
| 54 | Towards a remote IR fiber-optic sensor system for the determination of chlorinated hydrocarbons in water. <i>Sensors and Actuators B: Chemical</i> , 1997, 38, 83-87. | 7.8 | 63 |

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|----|--|------|-----------|
| 55 | Infrared Evanescent Field Sensing with Quantum Cascade Lasers and Planar Silver Halide Waveguides. <i>Analytical Chemistry</i> , 2005, 77, 4398-4403. | 6.5 | 63 |
| 56 | Correlated theoretical, spectroscopic and X-ray crystallographic studies of a non-covalent molecularly imprinted polymerisation system. <i>Analyst, The</i> , 2007, 132, 1161. | 3.5 | 63 |
| 57 | Monitoring dissolved carbon dioxide and methane in brine environments at high pressure using IR-ATR spectroscopy. <i>Analytical Methods</i> , 2016, 8, 756-762. | 2.7 | 62 |
| 58 | Advances in Mid-Infrared Spectroscopy-Based Sensing Techniques for Exhaled Breath Diagnostics. <i>Molecules</i> , 2020, 25, 2227. | 3.8 | 62 |
| 59 | Advances in imprinting strategies for selective virus recognition a review. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 114, 218-232. | 11.4 | 61 |
| 60 | External cavity widely tunable quantum cascade laser based hollow waveguide gas sensors for multianalyte detection. <i>Sensors and Actuators B: Chemical</i> , 2009, 140, 24-28. | 7.8 | 60 |
| 61 | Imaging of ATP membrane transport with dual micro-disk electrodes and scanning electrochemical microscopy. <i>Biosensors and Bioelectronics</i> , 2005, 21, 346-353. | 10.1 | 59 |
| 62 | Integrating micro- and nanoelectrodes into atomic force microscopy cantilevers using focused ion beam techniques. <i>Applied Physics Letters</i> , 2002, 81, 349-351. | 3.3 | 58 |
| 63 | Infrared Hollow Waveguide Sensors for Simultaneous Gas Phase Detection of Benzene, Toluene, and Xylenes in Field Environments. <i>Analytical Chemistry</i> , 2011, 83, 6141-6147. | 6.5 | 58 |
| 64 | Computational and experimental study on the influence of the porogen on the selectivity of 4-nitrophenol molecularly imprinted polymers. <i>Analytica Chimica Acta</i> , 2012, 744, 68-74. | 5.4 | 58 |
| 65 | On-Chip Integrated Mid-Infrared GaAs/AlGaAs Mach-Zehnder Interferometer. <i>Analytical Chemistry</i> , 2013, 85, 3050-3052. | 6.5 | 56 |
| 66 | Synthesis and application of a molecularly imprinted polymer for the voltammetric determination of famciclovir. <i>Biosensors and Bioelectronics</i> , 2015, 65, 108-114. | 10.1 | 55 |
| 67 | Numerical Simulation of Scanning Electrochemical Microscopy Experiments with Frame-Shaped Integrated Atomic Force Microscopy-SECM Probes Using the Boundary Element Method. <i>Analytical Chemistry</i> , 2005, 77, 764-771. | 6.5 | 53 |
| 68 | 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 |
| 69 | Mid-Infrared Waveguides: A Perspective. <i>Applied Spectroscopy</i> , 2016, 70, 1625-1638. | 2.2 | 50 |
| 70 | Online Analysis of H ₂ S and SO ₂ via Advanced Mid-Infrared Gas Sensors. <i>Analytical Chemistry</i> , 2015, 87, 9605-9611. | 6.5 | 49 |
| 71 | Towards enhanced optical sensor performance: SEIRA and SERS with plasmonic nanostars. <i>Analyst, The</i> , 2017, 142, 951-958. | 3.5 | 49 |
| 72 | Imprinted Polymeric Materials. Insight into the Nature of Prepolymerization Complexes of Quercetin Imprinted Polymers. <i>Analytical Chemistry</i> , 2006, 78, 6187-6190. | 6.5 | 48 |

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|----|---|------|-----------|
| 73 | Mid-Infrared Spectroscopy Platform Based on GaAs/AlGaAs Thin-Film Waveguides and Quantum Cascade Lasers. <i>Analytical Chemistry</i> , 2016, 88, 2558-2562. | 6.5 | 48 |
| 74 | Fabrication of a ring nanoelectrode in an AFM tip: novel approach towards simultaneous electrochemical and topographical imaging. <i>Surface and Interface Analysis</i> , 2002, 33, 146-150. | 1.8 | 47 |
| 75 | Surface Physicochemical Properties at the Micro and Nano Length Scales: Role on Bacterial Adhesion and <i>Xylella fastidiosa</i> Biofilm Development. <i>PLoS ONE</i> , 2013, 8, e75247. | 2.5 | 47 |
| 76 | Solâ€“gel based mid-infrared evanescent wave sensors for detection of organophosphate pesticides in aqueous solution. <i>Analytica Chimica Acta</i> , 2003, 496, 339-348. | 5.4 | 46 |
| 77 | Graphene-Based Surface Enhanced Vibrational Spectroscopy: Recent Developments, Challenges, and Applications. <i>ACS Photonics</i> , 2019, 6, 2182-2197. | 6.6 | 46 |
| 78 | Local detection of mechanically induced ATP release from bone cells with ATP microbiosensors. <i>Biosensors and Bioelectronics</i> , 2013, 44, 27-33. | 10.1 | 45 |
| 79 | Surface enhanced infrared absorption spectroscopy based on gold nanostars and spherical nanoparticles. <i>Analytica Chimica Acta</i> , 2017, 990, 141-149. | 5.4 | 45 |
| 80 | Alternating current (AC) impedance imaging with combined atomic force scanning electrochemical microscopy (AFM-SECM). <i>Electrochemistry Communications</i> , 2007, 9, 1311-1315. | 4.7 | 44 |
| 81 | Mid-Infrared Trace Gas Analysis with Single-Pass Fourier Transform Infrared Hollow Waveguide Gas Sensors. <i>Applied Spectroscopy</i> , 2009, 63, 331-337. | 2.2 | 44 |
| 82 | IRâ€“ATR Chemical Sensors Based on Planar Silver Halide Waveguides Coated with an Ethylene/Propylene Copolymer for Detection of Multiple Organic Contaminants in Water. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 2265-2268. | 13.8 | 44 |
| 83 | Advancements in IR spectroscopic approaches for the determination of fungal derived contaminations in food crops. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 653-660. | 3.7 | 44 |
| 84 | Hollow-waveguide gas sensing with room-temperature quantum cascade lasers. <i>IEE Proceedings: Optoelectronics</i> , 2003, 150, 306. | 0.8 | 43 |
| 85 | Application of Mid-Infrared Spectroscopy: Measuring Hydrogen Peroxide Concentrations in Bleaching Baths. <i>Applied Spectroscopy</i> , 2003, 57, 574-579. | 2.2 | 43 |
| 86 | Diamonds Are a Spectroscopistâ€™s Best Friend: Thin-Film Diamond Mid-Infrared Waveguides for Advanced Chemical Sensors/Biosensors. <i>Analytical Chemistry</i> , 2014, 86, 8136-8141. | 6.5 | 43 |
| 87 | Towards the determination of isoprene in human breath using substrate-integrated hollow waveguide mid-infrared sensors. <i>Journal of Breath Research</i> , 2014, 8, 026003. | 3.0 | 43 |
| 88 | Independent Actuation of Two-Tailed Microrobots. <i>IEEE Robotics and Automation Letters</i> , 2018, 3, 1703-1710. | 5.1 | 43 |
| 89 | 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 |
| 90 | New Frontiers for Mid-Infrared Sensors: Towards Deep Sea Monitoring with a Submarine FT-IR Sensor System. <i>Applied Spectroscopy</i> , 2003, 57, 591-599. | 2.2 | 42 |

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|-----|---|-----|-----------|
| 91 | In Situ Sensing of Volatile Organic Compounds in Groundwater: First Field Tests of a Mid-Infrared Fiber-Optic Sensing System. <i>Applied Spectroscopy</i> , 2003, 57, 607-613. | 2.2 | 42 |
| 92 | Determination of Chlorinated Hydrocarbons in Water Using Highly Sensitive Mid-Infrared Sensor Technology. <i>Scientific Reports</i> , 2013, 3, 2525. | 3.3 | 42 |
| 93 | Molecularly imprinted polymers for the analysis and removal of polychlorinated aromatic compounds in the environment: a review. <i>Analyst, The</i> , 2016, 141, 3141-3156. | 3.5 | 42 |
| 94 | Direct Analysis of Oxidizing Agents in Aqueous Solution with Attenuated Total Reflectance Mid-Infrared Spectroscopy and Diamond-like Carbon Protected Waveguides. <i>Analytical Chemistry</i> , 2004, 76, 384-391. | 6.5 | 41 |
| 95 | Batch Fabrication of Atomic Force Microscopy Probes with Recessed Integrated Ring Microelectrodes at a Wafer Level. <i>Analytical Chemistry</i> , 2007, 79, 4769-4777. | 6.5 | 41 |
| 96 | Mercury-Cadmium-Telluride Waveguides - A Novel Strategy for On-Chip Mid-Infrared Sensors. <i>Analytical Chemistry</i> , 2013, 85, 10648-10652. | 6.5 | 41 |
| 97 | iHWG-1/4NIR: a miniaturised near-infrared gas sensor based on substrate-integrated hollow waveguides coupled to a micro-NIR-spectrophotometer. <i>Analyst, The</i> , 2014, 139, 3572. | 3.5 | 41 |
| 98 | Extracting and Analyzing Pyrrolizidine Alkaloids in Medicinal Plants: A Review. <i>Toxins</i> , 2020, 12, 320. | 3.4 | 41 |
| 99 | Design and implementation of an imprinted material for the extraction of the endocrine disruptor bisphenol A from milk. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2013, 931, 164-169. | 2.3 | 40 |
| 100 | Quantum cascade lasers for mid-infrared spectroscopy. <i>Vibrational Spectroscopy</i> , 2002, 30, 53-58. | 2.2 | 39 |
| 101 | Liquid-Phase Chemical Sensing Using Lateral Mode Resonant Cantilevers. <i>Analytical Chemistry</i> , 2010, 82, 7542-7549. | 6.5 | 39 |
| 102 | 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 |
| 103 | A comparison of polymeric materials as pre-concentrating media for use with ATR/FTIR sensing. <i>International Journal of Environmental Analytical Chemistry</i> , 2006, 86, 401-415. | 3.3 | 38 |
| 104 | A novel chemometric classification for FTIR spectra of mycotoxin-contaminated maize and peanuts at regulatory limits. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2016, 33, 1596-1607. | 2.3 | 38 |
| 105 | MBE Growth of Mid-wave Infrared HgCdTe Layers on GaSb Alternative Substrates. <i>Journal of Electronic Materials</i> , 2015, 44, 3180-3187. | 2.2 | 37 |
| 106 | Detection of Hydrocarbons in Water by MIR Evanescent-Wave Spectroscopy with Flattened Silver Halide Fibers. <i>Applied Spectroscopy</i> , 2001, 55, 39-43. | 2.2 | 36 |
| 107 | Real-time monitoring of ozone in air using substrate-integrated hollow waveguide mid-infrared sensors. <i>Scientific Reports</i> , 2013, 3, 3174. | 3.3 | 36 |
| 108 | Fingerprinting Oils in Water via Their Dissolved VOC Pattern Using Mid-Infrared Sensors. <i>Analytical Chemistry</i> , 2014, 86, 9512-9517. | 6.5 | 36 |

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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 | Model-Based Optimal Design of Polymer-Coated Chemical Sensors. <i>Analytical Chemistry</i> , 2003, 75, 1106-1115. | 6.5 | 35 |
| 111 | Infrared optical sensors for water quality monitoring. <i>Water Science and Technology</i> , 2003, 47, 35-42. | 2.5 | 35 |
| 112 | Amperometric ATP Microbiosensors for the Analysis of Chemosensitivity at Rat Carotid Bodies. <i>Analytical Chemistry</i> , 2008, 80, 3991-3998. | 6.5 | 34 |
| 113 | Combining Scanning Electrochemical Microscopy with Infrared Attenuated Total Reflection Spectroscopy for <i>in Situ</i> Studies of Electrochemically Induced Processes. <i>Analytical Chemistry</i> , 2010, 82, 3139-3145. | 6.5 | 34 |
| 114 | Surface enhanced infrared absorption spectroscopy (SEIRA) using external reflection on low-cost substrates. <i>Fresenius' Journal of Analytical Chemistry</i> , 1998, 362, 15-20. | 1.5 | 33 |
| 115 | Spectroscopy in the gas phase with GaAs/AlGaAs quantum-cascade lasers. <i>Applied Optics</i> , 2000, 39, 6926. | 2.1 | 33 |
| 116 | Analysis of Corrosion Processes at the Surface of Diamond-Like Carbon Protected Zinc Selenide Waveguides. <i>Langmuir</i> , 2004, 20, 8634-8640. | 3.5 | 33 |
| 117 | Bare gold nanoparticles mediated surface-enhanced Raman spectroscopic determination and quantification of carboxylated single-walled carbon nanotubes. <i>Analytica Chimica Acta</i> , 2013, 788, 122-128. | 5.4 | 33 |
| 118 | Direct quantification of aromatic hydrocarbons in geochemical fluids with a mid-infrared attenuated total reflection sensor. <i>Organic Geochemistry</i> , 2013, 55, 63-71. | 1.8 | 33 |
| 119 | Simultaneous Nanomechanical and Electrochemical Mapping: Combining Peak Force Tapping Atomic Force Microscopy with Scanning Electrochemical Microscopy. <i>Analytical Chemistry</i> , 2016, 88, 6174-6178. | 6.5 | 33 |
| 120 | Binding site characteristics of 17 β -estradiol imprinted polymers. <i>Biosensors and Bioelectronics</i> , 2007, 23, 201-209. | 10.1 | 32 |
| 121 | Advanced fabrication process for combined atomic force-scanning electrochemical microscopy (AFM-SECM) probes. <i>Micron</i> , 2015, 68, 27-35. | 2.2 | 32 |
| 122 | Portable Infrared Laser Spectroscopy for On-site Mycotoxin Analysis. <i>Scientific Reports</i> , 2017, 7, 44028. | 3.3 | 32 |
| 123 | Gold-nanostar-based SERS substrates for studying protein aggregation processes. <i>Analyst</i> , 2018, 143, 5103-5111. | 3.5 | 32 |
| 124 | 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 |
| 125 | Infrared fiber optic gas sensor for chlorofluorohydrocarbons. <i>Vibrational Spectroscopy</i> , 1995, 8, 103-108. | 2.2 | 31 |
| 126 | Infrared Attenuated Total Reflection Spectroscopy of Quartz and Silica Micro- and Nanoparticulate Films. <i>Journal of Physical Chemistry C</i> , 2012, 116, 37-43. | 3.1 | 31 |

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|-----|--|-----|-----------|
| 127 | A streptococcal NRAMP homologue is crucial for the survival of <i>Streptococcus agalactiae</i> under low pH conditions. <i>Molecular Microbiology</i> , 2016, 100, 589-606. | 2.5 | 31 |
| 128 | Assessment of quantum cascade lasers as mid infrared light sources for measurement of aqueous samples. <i>Vibrational Spectroscopy</i> , 2002, 29, 283-289. | 2.2 | 30 |
| 129 | Surface imprinting of pepsin via miniemulsion polymerization. <i>Journal of Materials Chemistry B</i> , 2013, 1, 5489. | 5.8 | 30 |
| 130 | Mid-Infrared Spectroscopic Method for the Identification and Quantification of Dissolved Oil Components in Marine Environments. <i>Analytical Chemistry</i> , 2015, 87, 12306-12312. | 6.5 | 30 |
| 131 | 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 |
| 132 | A UV spectroscopic method for monitoring aromatic hydrocarbons dissolved in water. <i>Analytica Chimica Acta</i> , 2000, 422, 187-198. | 5.4 | 29 |
| 133 | Molecularly Imprinted Polymers for Nitrophenols - An Advanced Separation Material for Environmental Analysis. <i>International Journal of Environmental Analytical Chemistry</i> , 2001, 80, 75-86. | 3.3 | 29 |
| 134 | Nitrogen-doped diamond-like carbon as optically transparent electrode for infrared attenuated total reflection spectroelectrochemistry. <i>Analyst</i> , 2011, 136, 1831. | 3.5 | 29 |
| 135 | Breath Analysis by Mass Spectrometry: A New Tool for Breast Cancer Detection? <i>American Surgeon</i> , 2011, 77, 747-751. | 0.8 | 29 |
| 136 | Toward the quantification of the ¹³ CO ₂ / ¹² CO ₂ ratio in exhaled mouse breath with mid-infrared hollow waveguide gas sensors. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 397-404. | 3.7 | 29 |
| 137 | Infrared Attenuated Total Reflection Spectroscopy for the Characterization of Gold Nanoparticles in Solution. <i>Analytical Chemistry</i> , 2014, 86, 783-789. | 6.5 | 29 |
| 138 | Mid-Infrared thin-film diamond waveguides combined with tunable quantum cascade lasers for analyzing the secondary structure of proteins. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 2117-2123. | 1.8 | 29 |
| 139 | A Mid-Infrared Sensor for Monitoring of Chlorinated Hydrocarbons in the Marine Environment. <i>International Journal of Environmental Analytical Chemistry</i> , 2000, 78, 367-383. | 3.3 | 28 |
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