

Bilal El-Zahab

List of Publications by Year in descending order

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52
papers

1,977
citations

236612

25
h-index

253896

43
g-index

52
all docs

52
docs citations

52
times ranked

2390
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Particle- β -tethered NADH for production of methanol from CO ₂ catalyzed by coimmobilized enzymes. <i>Biotechnology and Bioengineering</i> , 2008, 99, 508-514. | 1.7 | 168 |
| 2 | Polymeric Ionic Liquid Gel Electrolyte for Room Temperature Lithium Battery Applications. <i>Electrochimica Acta</i> , 2016, 213, 587-593. | 2.6 | 123 |
| 3 | Near-Infrared Fluorescent NanoGUMBOS for Biomedical Imaging. <i>ACS Nano</i> , 2009, 3, 3854-3860. | 7.3 | 97 |
| 4 | Fluorescence, Phosphorescence, and Chemiluminescence. <i>Analytical Chemistry</i> , 2016, 88, 170-202. | 3.2 | 95 |
| 5 | Design, Synthesis, and Biological Evaluation of β -Lactam Antibiotic-Based Imidazolium- and Pyridinium-Type Ionic Liquids. <i>Chemical Biology and Drug Design</i> , 2011, 78, 33-41. | 1.5 | 91 |
| 6 | Magnetic chiral ionic liquids derived from amino acids. <i>Chemical Communications</i> , 2009, , 6922. | 2.2 | 90 |
| 7 | Enabling multienzyme biocatalysis using nanoporous materials. <i>Biotechnology and Bioengineering</i> , 2004, 87, 178-183. | 1.7 | 88 |
| 8 | Molecular Fluorescence, Phosphorescence, and Chemiluminescence Spectrometry. <i>Analytical Chemistry</i> , 2012, 84, 597-625. | 3.2 | 83 |
| 9 | Nontemplated Approach to Tuning the Spectral Properties of Cyanine-Based Fluorescent NanoGUMBOS. <i>Langmuir</i> , 2010, 26, 12867-12876. | 1.6 | 82 |
| 10 | Perspectives on Moving Ionic Liquid Chemistry into the Solid Phase. <i>Analytical Chemistry</i> , 2014, 86, 7184-7191. | 3.2 | 67 |
| 11 | Anion-controlled morphologies and spectral features of cyanine-based nanoGUMBOS – an improved photosensitizer. <i>Nanoscale</i> , 2012, 4, 5031. | 2.8 | 63 |
| 12 | Ratiometric Coumarin-Neutral Red (CONER) Nanoprobe for Detection of Hydroxyl Radicals. <i>Analytical Chemistry</i> , 2011, 83, 2576-2581. | 3.2 | 62 |
| 13 | Controllable Formation of Ionic Liquid Micro- and Nanoparticles via a Melt-Emulsion-Quench Approach. <i>Nano Letters</i> , 2008, 8, 897-901. | 4.5 | 59 |
| 14 | Enzymatic synthesis of L-lactic acid from carbon dioxide and ethanol with an inherent cofactor regeneration cycle. <i>Biotechnology and Bioengineering</i> , 2011, 108, 465-469. | 1.7 | 59 |
| 15 | Magnetic and Nonmagnetic Nanoparticles from a Group of Uniform Materials Based on Organic Salts. <i>ACS Nano</i> , 2009, 3, 3244-3250. | 7.3 | 56 |
| 16 | Molecular Fluorescence, Phosphorescence, and Chemiluminescence Spectrometry. <i>Analytical Chemistry</i> , 2010, 82, 4865-4894. | 3.2 | 49 |
| 17 | A novel composite film for detection and molecular weight determination of organic vapors. <i>Journal of Materials Chemistry</i> , 2012, 22, 13732. | 6.7 | 44 |
| 18 | An Organic Soluble Lipase for Water-Free Synthesis of Biodiesel. <i>Applied Biochemistry and Biotechnology</i> , 2007, 143, 236-243. | 1.4 | 40 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Composite Gel Polymer Electrolyte for Improved Cyclability in Lithium-Oxygen Batteries. ACS Applied Materials & Interfaces, 2017, 9, 33819-33826. | 4.0 | 39 |
| 20 | Fluorescent one-dimensional nanostructures from a group of uniform materials based on organic salts. Chemical Communications, 2011, 47, 8916. | 2.2 | 38 |
| 21 | Lanthanide-Based Luminescent NanoGUMBOS. Langmuir, 2010, 26, 15599-15603. | 1.6 | 37 |
| 22 | Irradiation Induced Fluorescence Enhancement in PEGylated Cyanine-Based NIR Nano- and Mesoscale GUMBOS. Langmuir, 2012, 28, 14415-14423. | 1.6 | 35 |
| 23 | Capacity Fading Mechanism in Lithium-Sulfur Battery using Poly(ionic liquid) Gel Electrolyte. Electrochimica Acta, 2017, 258, 1284-1292. | 2.6 | 32 |
| 24 | Ephedrinium-Based protic chiral ionic liquids for enantiomeric recognition. Chirality, 2011, 23, 54-62. | 1.3 | 30 |
| 25 | Ionically Self-Assembled, Multi-Luminophore One-Dimensional Micro- and Nanoscale Aggregates of Thiocarbocyanine GUMBOS. Journal of Physical Chemistry C, 2012, 116, 8251-8260. | 1.5 | 30 |
| 26 | Tunable Size and Spectral Properties of Fluorescent NanoGUMBOS in Modified Sodium Deoxycholate Hydrogels. Langmuir, 2012, 28, 757-765. | 1.6 | 26 |
| 27 | One-Dimensional Glass Micro-Fillers in Gel Polymer Electrolytes for Li-O ₂ Battery Applications. Electrochimica Acta, 2017, 235, 56-63. | 2.6 | 26 |
| 28 | Combinatorial Approach to Enantiomeric Discrimination: Synthesis and ¹⁹ F NMR Screening of a Chiral Ionic Liquid-Modified Silane Library. ACS Combinatorial Science, 2009, 11, 1105-1114. | 3.3 | 25 |
| 29 | Palladium-Filled Carbon Nanotubes Cathode for Improved Electrolyte Stability and Cyclability Performance of Li-O ₂ Batteries. Journal of the Electrochemical Society, 2017, 164, A6303-A6307. | 1.3 | 25 |
| 30 | Molecular weight sensing properties of ionic liquid-polymer composite films: theory and experiment. Journal of Materials Chemistry C, 2014, 2, 4867-4878. | 2.7 | 24 |
| 31 | Poly(Ionic Liquid)-Based Composite Gel Electrolyte for Lithium Batteries. ChemElectroChem, 2019, 6, 3319-3326. | 1.7 | 21 |
| 32 | Thermo-acoustofluidic separation of vesicles based on cholesterol content. Lab on A Chip, 2017, 17, 1332-1339. | 3.1 | 20 |
| 33 | Lipophilic phosphonium-lanthanide compounds with magnetic, luminescent, and tumor targeting properties. Journal of Inorganic Biochemistry, 2012, 107, 40-46. | 1.5 | 19 |
| 34 | Lysine-Based Zwitterionic Molecular Micelle for Simultaneous Separation of Acidic and Basic Proteins Using Open Tubular Capillary Electrochromatography. Analytical Chemistry, 2010, 82, 3997-4005. | 3.2 | 18 |
| 35 | Strategies for controlled synthesis of nanoparticles derived from a group of uniform materials based on organic salts. Journal of Colloid and Interface Science, 2015, 446, 163-169. | 5.0 | 18 |
| 36 | Stabilizing effect of ion complex formation in lithium-oxygen battery electrolytes. Journal of Electroanalytical Chemistry, 2018, 815, 143-150. | 1.9 | 18 |

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|----|--|-----|-----------|
| 37 | Minimizing human infection from Escherichia coli O157:H7 using GUMBOS. Journal of Antimicrobial Chemotherapy, 2013, 68, 1312-1318. | 1.3 | 17 |
| 38 | In vitro activity studies of hyperthermal near-infrared nanoGUMBOS in MDA-MB-231 breast cancer cells. Photochemical and Photobiological Sciences, 2014, 13, 1270-1280. | 1.6 | 12 |
| 39 | Thermally-assisted ultrasonic separation of giant vesicles. Lab on A Chip, 2016, 16, 3449-3453. | 3.1 | 8 |
| 40 | Positive cooperative mechanistic binding of proteins at low concentrations: A comparison of poly (sodium N-undecanoyl sulfate) and sodium dodecyl sulfate. Journal of Colloid and Interface Science, 2011, 363, 585-594. | 5.0 | 7 |
| 41 | Photothermal Response of Near-Infrared-Absorbing NanoGUMBOS. Applied Spectroscopy, 2014, 68, 340-352. | 1.2 | 7 |
| 42 | Mechanism of Ionic Impedance Growth for Palladium-Containing CNT Electrodes in Lithium-Oxygen Battery Electrodes and its Contribution to Battery Failure. Batteries, 2019, 5, 15. | 2.1 | 7 |
| 43 | Highly Efficient Extraction of Phenols from Aqueous Solution Using Magnetic Room Temperature Ionic Liquids. ECS Transactions, 2010, 33, 73-77. | 0.3 | 5 |
| 44 | Enzymatic Degradation of Trichloroethylene Using Enzyme Extracts Isolated From a Bacterial Consortium. Applied Biochemistry and Biotechnology, 2004, 117, 165-174. | 1.4 | 4 |
| 45 | Mechanistic Investigation of N-Homocysteinylation-Mediated Protein-Gold Nanoconjugate Assembly. Langmuir, 2009, 25, 9346-9351. | 1.6 | 4 |
| 46 | Thermally Assisted Acoustofluidic Separation Based on Membrane Protein Content. Analytical Chemistry, 2019, 91, 13953-13961. | 3.2 | 3 |
| 47 | Polysaccharide Ecocomposite Materials: Synthesis, Characterization and Application for Removal of Pollutants and Bacteria. ECS Transactions, 2013, 50, 573-594. | 0.3 | 2 |
| 48 | Controllable optical transparency using an acoustic standing-wave device. Optical Materials, 2015, 47, 582-585. | 1.7 | 2 |
| 49 | Silicon-Based Lab-on-Chip Device for Acoustic Focusing Applications. , 2014, , . | | 1 |
| 50 | Thermally assisted acoustofluidic separation of extracellular vesicles from cells. , 2018, , . | | 1 |
| 51 | Anisotropic electronically conductive films templated using ultrasonic focusing. Electronic Materials Letters, 2016, 12, 121-126. | 1.0 | 0 |
| 52 | Thermally assisted acoustophoresis as a new stiffness-based separation method. , 2017, , . | | 0 |