

# Bilal El-Zahab

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

50  
papers

1,572  
citations

23  
h-index

39  
g-index

52  
ext. papers

1,720  
ext. citations

5.9  
avg, IF

4.46  
L-index

#	Paper	IF	Citations
50	Poly(Ionic Liquid)-Based Composite Gel Electrolyte for Lithium Batteries. <i>ChemElectroChem</i> , <b>2019</b> , 6, 3319-3326	4.3	15
49	Mechanism of Ionic Impedance Growth for Palladium-Containing CNT Electrodes in Lithium-Oxygen Battery Electrodes and its Contribution to Battery Failure. <i>Batteries</i> , <b>2019</b> , 5, 15	5.7	6
48	Thermally Assisted Acoustofluidic Separation Based on Membrane Protein Content. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 13953-13961	7.8	2
47	Stabilizing effect of ion complex formation in lithium-oxygen battery electrolytes. <i>Journal of Electroanalytical Chemistry</i> , <b>2018</b> , 815, 143-150	4.1	15
46	Thermally assisted acoustofluidic separation of extracellular vesicles from cells <b>2018</b> ,		1
45	Palladium-Filled Carbon Nanotubes Cathode for Improved Electrolyte Stability and Cyclability Performance of Li-O <sub>2</sub> Batteries. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, A6303-A6307	3.9	20
44	Thermo-acoustofluidic separation of vesicles based on cholesterol content. <i>Lab on A Chip</i> , <b>2017</b> , 17, 1332-1339	7.1	17
43	One-Dimensional Glass Micro-Fillers in Gel Polymer Electrolytes for Li-O <sub>2</sub> Battery Applications. <i>Electrochimica Acta</i> , <b>2017</b> , 235, 56-63	6.7	21
42	Composite Gel Polymer Electrolyte for Improved Cyclability in Lithium-Oxygen Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 33819-33826	9.5	32
41	Capacity Fading Mechanism in Lithium-Sulfur Battery using Poly(ionic liquid) Gel Electrolyte. <i>Electrochimica Acta</i> , <b>2017</b> , 258, 1284-1292	6.7	29
40	Thermally-assisted ultrasonic separation of giant vesicles. <i>Lab on A Chip</i> , <b>2016</b> , 16, 3449-53	7.2	6
39	Anisotropic electronically conductive films templated using ultrasonic focusing. <i>Electronic Materials Letters</i> , <b>2016</b> , 12, 121-126	2.9	
38	Fluorescence, Phosphorescence, and Chemiluminescence. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 170-202	7.8	72
37	Polymeric Ionic Liquid Gel Electrolyte for Room Temperature Lithium Battery Applications. <i>Electrochimica Acta</i> , <b>2016</b> , 213, 587-593	6.7	100
36	Controllable optical transparency using an acoustic standing-wave device. <i>Optical Materials</i> , <b>2015</b> , 47, 582-585	3.3	1
35	Strategies for controlled synthesis of nanoparticles derived from a group of uniform materials based on organic salts. <i>Journal of Colloid and Interface Science</i> , <b>2015</b> , 446, 163-9	9.3	13
34	Molecular weight sensing properties of ionic liquid-polymer composite films: theory and experiment. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 4867-4878	7.1	19

33	In vitro activity studies of hyperthermal near-infrared nanoGUMBOS in MDA-MB-231 breast cancer cells. <i>Photochemical and Photobiological Sciences</i> , <b>2014</b> , 13, 1270-80	4.2	9
32	Perspectives on moving ionic liquid chemistry into the solid phase. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 7184-918	4.8	
31	Photothermal response of near-infrared-absorbing NanoGUMBOS. <i>Applied Spectroscopy</i> , <b>2014</b> , 68, 340-531	5.1	5
30	Polysaccharide Ecocomposite Materials: Synthesis, Characterization and Application for Removal of Pollutants and Bacteria. <i>ECS Transactions</i> , <b>2013</b> , 50, 573-594	1	2
29	Minimizing human infection from Escherichia coli O157:H7 using GUMBOS. <i>Journal of Antimicrobial Chemotherapy</i> , <b>2013</b> , 68, 1312-8	5.1	11
28	Lipophilic phosphonium-lanthanide compounds with magnetic, luminescent, and tumor targeting properties. <i>Journal of Inorganic Biochemistry</i> , <b>2012</b> , 107, 40-6	4.2	13
27	Tunable size and spectral properties of fluorescent nanoGUMBOS in modified sodium deoxycholate hydrogels. <i>Langmuir</i> , <b>2012</b> , 28, 757-65	4	20
26	Irradiation induced fluorescence enhancement in PEGylated cyanine-based NIR nano- and mesoscale GUMBOS. <i>Langmuir</i> , <b>2012</b> , 28, 14415-23	4	26
25	A novel composite film for detection and molecular weight determination of organic vapors. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 13732		34
24	Ionically Self-Assembled, Multi-Luminophore One-Dimensional Micro- and Nanoscale Aggregates of Thiocarbocyanine GUMBOS. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 8251-8260	3.8	24
23	Molecular fluorescence, phosphorescence, and chemiluminescence spectrometry. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 597-625	7.8	58
22	Anion-controlled morphologies and spectral features of cyanine-based nanoGUMBOS--an improved photosensitizer. <i>Nanoscale</i> , <b>2012</b> , 4, 5031-8	7.7	49
21	Design, synthesis, and biological evaluation of lactam antibiotic-based imidazolium- and pyridinium-type ionic liquids. <i>Chemical Biology and Drug Design</i> , <b>2011</b> , 78, 33-41	2.9	74
20	Positive cooperative mechanistic binding of proteins at low concentrations: a comparison of poly (sodium N-undecanoyl sulfate) and sodium dodecyl sulfate. <i>Journal of Colloid and Interface Science</i> , <b>2011</b> , 363, 585-94	9.3	7
19	Enzymatic synthesis of L-lactic acid from carbon dioxide and ethanol with an inherent cofactor regeneration cycle. <i>Biotechnology and Bioengineering</i> , <b>2011</b> , 108, 465-9	4.9	47
18	Ephedrinium-based protic chiral ionic liquids for enantiomeric recognition. <i>Chirality</i> , <b>2011</b> , 23, 54-62	2.1	22
17	Fluorescent one-dimensional nanostructures from a group of uniform materials based on organic salts. <i>Chemical Communications</i> , <b>2011</b> , 47, 8916-8	5.8	22
16	Ratiometric coumarin-neutral red (CONER) nanoprobe for detection of hydroxyl radicals. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 2576-81	7.8	55

15	Highly Efficient Extraction of Phenols from Aqueous Solution Using Magnetic Room Temperature Ionic Liquids. <i>ECS Transactions</i> , <b>2010</b> , 33, 73-77	1	4
14	Lysine-based zwitterionic molecular micelle for simultaneous separation of acidic and basic proteins using open tubular capillary electrochromatography. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 3997-4005	7.8	17
13	Nontemplated approach to tuning the spectral properties of cyanine-based fluorescent nanoGUMBOS. <i>Langmuir</i> , <b>2010</b> , 26, 12867-76	4	65
12	Molecular fluorescence, phosphorescence, and chemiluminescence spectrometry. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 4865-94	7.8	46
11	Lanthanide-based luminescent NanoGUMBOS. <i>Langmuir</i> , <b>2010</b> , 26, 15599-603	4	29
10	Magnetic and nonmagnetic nanoparticles from a group of uniform materials based on organic salts. <i>ACS Nano</i> , <b>2009</b> , 3, 3244-50	16.7	37
9	Near-infrared fluorescent nanoGUMBOS for biomedical imaging. <i>ACS Nano</i> , <b>2009</b> , 3, 3854-60	16.7	77
8	Mechanistic investigation of N-homocysteinylation-mediated protein-gold nanoconjugate assembly. <i>Langmuir</i> , <b>2009</b> , 25, 9346-51	4	3
7	Magnetic chiral ionic liquids derived from amino acids. <i>Chemical Communications</i> , <b>2009</b> , 6922-4	5.8	79
6	Combinatorial approach to enantiomeric discrimination: synthesis and (19)F NMR screening of a chiral ionic liquid-modified silane library. <i>ACS Combinatorial Science</i> , <b>2009</b> , 11, 1105-14		20
5	Controllable formation of ionic liquid micro- and nanoparticles via a melt-emulsion-quench approach. <i>Nano Letters</i> , <b>2008</b> , 8, 897-901	11.5	46
4	Particle-tethered NADH for production of methanol from CO(2) catalyzed by coimmobilized enzymes. <i>Biotechnology and Bioengineering</i> , <b>2008</b> , 99, 508-14	4.9	137
3	An organic soluble lipase for water-free synthesis of biodiesel. <i>Applied Biochemistry and Biotechnology</i> , <b>2007</b> , 143, 236-43	3.2	37
2	Enzymatic degradation of trichloroethylene using enzyme extracts isolated from a bacterial consortium. <i>Applied Biochemistry and Biotechnology</i> , <b>2004</b> , 117, 165-74	3.2	4
1	Enabling multienzyme biocatalysis using nanoporous materials. <i>Biotechnology and Bioengineering</i> , <b>2004</b> , 87, 178-83	4.9	75