

Burcu E Gurkan

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9520477/publications.pdf>

Version: 2024-02-01

46
papers

4,778
citations

185998

28
h-index

253896

43
g-index

47
all docs

47
docs citations

47
times ranked

3758
citing authors

#	ARTICLE	IF	CITATIONS
1	Refined Classical Force Field for Choline Chloride and Ethylene Glycol Mixtures over Wide Composition Range. <i>Journal of Chemical & Engineering Data</i> , 2022, 67, 1864-1871.	1.0	19
2	Evolution of microscopic heterogeneity and dynamics in choline chloride-based deep eutectic solvents. <i>Nature Communications</i> , 2022, 13, 219.	5.8	42
3	Perspective—Hydrogen Bonded Concentrated Electrolytes for Redox Flow Batteries: Limitations and Prospects. <i>Journal of the Electrochemical Society</i> , 2022, 169, 030520.	1.3	7
4	Smooth Modified Surfaces of Silicon for the Study of Ionic Liquid Interfaces by Neutron Reflectometry. <i>ACS Applied Electronic Materials</i> , 2022, 4, 2217-2226.	2.0	5
5	Electro—Oxidation of Nitroxide Radicals: Adsorption—Mediated Charge Transfer Probed Using SERS and Potentiometry. <i>Journal of the Electrochemical Society</i> , 2022, 169, 053511.	1.3	7
6	Deep Eutectic Solvents: A Review of Fundamentals and Applications. <i>Chemical Reviews</i> , 2021, 121, 1232-1285.	23.0	1,334
7	Deep Eutectic Solvent Formed by Imidazolium Cyanopyrrolide and Ethylene Glycol for Reactive CO ₂ Separations. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 1090-1098.	3.2	37
8	Do Deep Eutectic Solvents Behave Like Ionic Liquid Electrolytes? A Perspective from the Electrode-Electrolyte Interface. <i>Journal of the Electrochemical Society</i> , 2021, 168, 026503.	1.3	19
9	Solvation Dynamics of Wet Ethaline: Water is the Magic Component. <i>Journal of Physical Chemistry B</i> , 2021, 125, 8888-8901.	1.2	32
10	Capsules with polyurea shells and ionic liquid cores for CO ₂ capture. <i>Journal of Polymer Science</i> , 2021, 59, 2980-2989.	2.0	11
11	Graphene oxide reinforced facilitated transport membrane with poly(ionic liquid) and ionic liquid carriers for CO ₂ /N ₂ separation. <i>Journal of Membrane Science</i> , 2021, 638, 119652.	4.1	33
12	Energetics of Li ⁺ Coordination with Asymmetric Anions in Ionic Liquids by Density Functional Theory. <i>Frontiers in Energy Research</i> , 2021, 9, .	1.2	5
13	Spectroscopic and Electrochemical Investigation of Adsorbed Nitroxide Radicals. <i>ECS Meeting Abstracts</i> , 2021, MA2021-02, 1901-1901.	0.0	0
14	Viologen Derivatives in Deep Eutectic Solvents for Energy Storage. <i>ECS Meeting Abstracts</i> , 2021, MA2021-02, 1460-1460.	0.0	0
15	Perspective and challenges in electrochemical approaches for reactive CO ₂ separations. <i>IScience</i> , 2021, 24, 103422.	1.9	28
16	Electroanalytical Investigation of the Electrode—Electrolyte Interface of Quaternary Ammonium Ionic Liquids: Impact of Alkyl Chain Length and Ether Functionality. <i>Journal of Physical Chemistry C</i> , 2020, 124, 5613-5623.	1.5	25
17	Facilitated Transport Membranes With Ionic Liquids for CO ₂ Separations. <i>Frontiers in Chemistry</i> , 2020, 8, 637.	1.8	33
18	Deep Eutectic Solvents: A New Class of Versatile Liquids. <i>Journal of Physical Chemistry B</i> , 2020, 124, 11313-11315.	1.2	19

#	ARTICLE	IF	CITATIONS
19	Liquid Structure and Transport Properties of the Deep Eutectic Solvent Ethaline. Journal of Physical Chemistry B, 2020, 124, 5251-5264.	1.2	84
20	Capsules of Reactive Ionic Liquids for Selective Capture of Carbon Dioxide at Low Concentrations. ACS Applied Materials & Interfaces, 2020, 12, 19184-19193.	4.0	53
21	From Salt in Solution to Solely Ions: Solvation of Methyl Viologen in Deep Eutectic Solvents and Ionic Liquids. Journal of Physical Chemistry B, 2020, 124, 6348-6357.	1.2	35
22	Feasibility of TEMPO-functionalized imidazolium, ammonium and pyridinium salts as redox-active carriers in ethaline deep eutectic solvent for energy storage. Molecular Systems Design and Engineering, 2020, 5, 1147-1157.	1.7	13
23	Liquid Structure and Transport Properties of the Deep Eutectic Solvent Ethaline. ECS Meeting Abstracts, 2020, MA2020-02, 2910-2910.	0.0	0
24	Pyrrrolidinium Ionic Liquid Electrolyte with Bis(trifluoromethylsulfonyl)imide and Bis(fluorosulfonyl)imide Anions: Lithium Solvation and Mobility, and Performance in Lithium Metal-Lithium Iron Phosphate Batteries. Industrial & Engineering Chemistry Research, 2019, 58, 22587-22597.	1.8	37
25	Potential dependent capacitance of [EMIM][TFSI], [N ₁₁₁₄][TFSI] and [PYR ₁₃][TFSI] ionic liquids on glassy carbon. Physical Chemistry Chemical Physics, 2019, 21, 3712-3720.	1.3	61
26	Hybrid Ionic Liquid Capsules for Rapid CO ₂ Capture. Industrial & Engineering Chemistry Research, 2019, 58, 10503-10509.	1.8	48
27	Metal-Free Deep Eutectic Solvents: Preparation, Physical Properties, and Significance. Journal of Physical Chemistry Letters, 2019, 10, 7956-7964.	2.1	118
28	Improved accessibility of porous carbon electrodes with surfactant ionic liquids for supercapacitors. Journal of Applied Electrochemistry, 2019, 49, 151-162.	1.5	15
29	Solvation Structure and Dynamics of Li ⁺ in Ternary Ionic Liquid-Lithium Salt Electrolytes. Journal of Physical Chemistry B, 2019, 123, 516-527.	1.2	62
30	Stabilization of the Ionic Liquid Electrode Interface from Large Nonpolar Groups in Ionic Liquids and Ionic Liquid Mixtures. ECS Meeting Abstracts, 2019, .	0.0	0
31	Electrochemical Behavior of Redox Active Organic Molecules in Ethaline Deep Eutectic Solvent. ECS Meeting Abstracts, 2019, MA2019-02, 2177-2177.	0.0	2
32	Carbon Capsules of Ionic Liquid for Enhanced Performance of Electrochemical Double-Layer Capacitors. ACS Applied Materials & Interfaces, 2018, 10, 16707-16714.	4.0	52
33	Cooperatively assembled, nitrogen-doped, ordered mesoporous carbon/iron oxide nanocomposites for low-cost, long cycle life sodium-ion batteries. Carbon, 2017, 116, 286-293.	5.4	40
34	Enhanced Cycle Performance of Quinone-Based Anodes for Sodium Ion Batteries by Attachment to Ordered Mesoporous Carbon and Use of Ionic Liquid Electrolyte. Journal of the Electrochemical Society, 2017, 164, H5093-H5099.	1.3	29
35	Eutectic Ionic Liquids for Lithium Batteries. ECS Transactions, 2017, 80, 1139-1146.	0.3	2
36	Roll-to-roll fabrication of high surface area mesoporous carbon with process-tunable pore texture for optimization of adsorption capacity of bulky organic dyes. Microporous and Mesoporous Materials, 2016, 227, 57-64.	2.2	34

#	ARTICLE	IF	CITATIONS
37	Enhanced gravimetric CO ₂ capacity and viscosity for ionic liquids with cyanopyrrolide anion. <i>AIChE Journal</i> , 2015, 61, 2280-2285.	1.8	34
38	Quinone Reduction in Ionic Liquids for Electrochemical CO ₂ Separation. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 1394-1405.	3.2	89
39	CO ₂ -Responsive Microemulsions Based on Reactive Ionic Liquids. <i>Langmuir</i> , 2014, 30, 4267-4272.	1.6	39
40	Reaction kinetics of CO ₂ absorption in to phosphonium based anion-functionalized ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 7796.	1.3	96
41	Experimental Measurements of Amine-Functionalized Anion-Tethered Ionic Liquids with Carbon Dioxide. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 111-118.	1.8	261
42	Effect of Water and Temperature on Absorption of CO ₂ by Amine-Functionalized Anion-Tethered Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2011, 115, 9140-9150.	1.2	240
43	Equimolar CO ₂ Absorption by Anion-Functionalized Ionic Liquids. <i>Journal of the American Chemical Society</i> , 2010, 132, 2116-2117.	6.6	791
44	Molecular Design of High Capacity, Low Viscosity, Chemically Tunable Ionic Liquids for CO ₂ Capture. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 3494-3499.	2.1	378
45	Ionic Liquids for CO ₂ Capture and Emission Reduction. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 3459-3464.	2.1	476
46	Force field for the atomistic simulation of the properties of hydrazine, organic hydrazine derivatives, and energetic hydrazinium ionic liquids. <i>Pure and Applied Chemistry</i> , 2009, 81, 1799-1828.	0.9	30