Tamar L Greaves

List of Publications by Year
in descending order

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85 papers	6,769 citations	159525 30 h-index	60583 81 g-index
89 all docs	89 docs citations	89 times ranked	5428 citing authors

#	Article	IF	Citations
1	The Impact of Water on the Lateral Nanostructure of a Deep Eutectic Solventâ€"Solid Interface. Australian Journal of Chemistry, 2022, 75, 111-125.	0.5	7
2	Protein aggregation and crystallization with ionic liquids: Insights into the influence of solvent properties. Journal of Colloid and Interface Science, 2022, 608, 1173-1190.	5.0	18
3	Bulk and interfacial nanostructure and properties in deep eutectic solvents: Current perspectives and future directions. Journal of Colloid and Interface Science, 2022, 608, 2430-2454.	5.0	45
4	Insights on lysozyme aggregation in protic ionic liquid solvents by using small angle X-ray scattering and high throughput screening. Journal of Molecular Liquids, 2022, 345, 117816.	2.3	10
5	Preferred orientation and its effects on intensity-correlation measurements. IUCrJ, 2022, 9, 231-242.	1.0	2
6	Protic Ionic Liquid Cation Alkyl Chain Length Effect on Lysozyme Structure. Molecules, 2022, 27, 984.	1.7	7
7	Observations of phase changes in monoolein during high viscous injection. Journal of Synchrotron Radiation, 2022, 29, 602-614.	1.0	5
8	Machine learning investigation of viscosity and ionic conductivity of protic ionic liquids in water mixtures. Journal of Chemical Physics, 2022, 156, 154503.	1.2	6
9	Electrochemical Stability of Zinc and Copper Surfaces in Protic Ionic Liquids. Langmuir, 2022, 38, 4633-4644.	1.6	4
10	Deep eutectic solvents as cryoprotective agents for mammalian cells. Journal of Materials Chemistry B, 2022, 10, 4546-4560.	2.9	22
11	Lysozyme conformational changes with ionic liquids: Spectroscopic, small angle x-ray scattering and crystallographic study. Journal of Colloid and Interface Science, 2021, 585, 433-443.	5.0	24
12	The effect of salt and particle concentration on the dynamic self-assembly of detonation nanodiamonds in water. Nanoscale, 2021, 13, 14110-14118.	2.8	11
13	Machine learning approaches to understand and predict rate constants for organic processes in mixtures containing ionic liquids. Physical Chemistry Chemical Physics, 2021, 23, 2742-2752.	1.3	20
14	Effect of ionic liquids on the fluorescence properties and aggregation of superfolder green fluorescence protein. Journal of Colloid and Interface Science, 2021, 591, 96-105.	5.0	17
15	Nanostructure of a deep eutectic solvent at solid interfaces. Journal of Colloid and Interface Science, 2021, 591, 38-51.	5.0	27
16	Systematic Comparison of the Structural and Dynamic Properties of Commonly Used Water Models for Molecular Dynamics Simulations. Journal of Chemical Information and Modeling, 2021, 61, 4521-4536.	2.5	94
17	Ultrafast dynamics and scattering of protic ionic liquids induced by XFEL pulses. Journal of Synchrotron Radiation, 2021, 28, 1296-1308.	1.0	2
18	Imidazolium-based ionic liquids as additives to preserve the Enhanced Green Fluorescent Protein fluorescent activity. Green Chemical Engineering, 2021, 2, 412-422.	3.3	14

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19	Cryopreservation of mammalian cells using protic ionic liquid solutions. Journal of Colloid and Interface Science, 2021, 603, 491-500.	5.0	10
20	Effect of inorganic additives and optimisation of the electro-assisted organosolv pretreatment of biomass. Journal of Environmental Chemical Engineering, 2021, 9, 106432.	3.3	1
21	Tuning Nanostructured Lyotropic Liquid Crystalline Mesophases in Lipid Nanoparticles with Protic Ionic Liquids. Journal of Physical Chemistry Letters, 2021, 12, 399-404.	2.1	6
22	Solvation properties of protic ionic liquids and molecular solvents. Physical Chemistry Chemical Physics, 2020, 22, 114-128.	1.3	36
23	Formation of Surface Protic Ionic Liquid Nanodroplets for Nanofabrication. Advanced Materials Interfaces, 2020, 7, 1901647.	1.9	5
24	Reversible and irreversible fluorescence activity of the Enhanced Green Fluorescent Protein in pH: Insights for the development of pH-biosensors. International Journal of Biological Macromolecules, 2020, 164, 3474-3484.	3.6	13
25	Electro-Assisted Pretreatment of Lignocellulosic Materials in Ionic Liquid-Promoted Organic Solvents. ACS Sustainable Chemistry and Engineering, 2020, 8, 18177-18186.	3.2	14
26	Physicochemical characterisation of novel tetrabutylammonium aryltrifluoroborate ionic liquids. Physical Chemistry Chemical Physics, 2020, 22, 23374-23384.	1.3	1
27	Lyotropic liquid crystal phase behavior of a cationic amphiphile in aqueous and non-stoichiometric protic ionic liquid mixtures. Soft Matter, 2020, 16, 9456-9470.	1.2	3
28	Fluctuation X-ray diffraction reveals three-dimensional nanostructure and disorder in self-assembled lipid phases. Communications Materials, 2020, 1, .	2.9	13
29	The Sensitivity of the Pair-Angle Distribution Function to Protein Structure. Crystals, 2020, 10, 724.	1.0	2
30	Structural investigations of molecular solutes within nanostructured ionic liquids. Physical Chemistry Chemical Physics, 2020, 22, 11593-11608.	1.3	7
31	Cytotoxicity of protic ionic liquids towards the HaCat cell line derived from human skin. Journal of Molecular Liquids, 2020, 314, 113602.	2.3	15
32	Tunable Biomimetic Hydrogels from Silk Fibroin and Nanocellulose. ACS Sustainable Chemistry and Engineering, 2020, 8, 2375-2389.	3.2	84
33	Solvation properties of protic ionic liquidâ€“molecular solvent mixtures. Physical Chemistry Chemical Physics, 2020, 22, 10995-11011.	1.3	22
34	Revealing a new fluorescence peak of the enhanced green fluorescent protein using three-dimensional fluorescence spectroscopy. RSC Advances, 2019, 9, 22853-22858.	1.7	14
35	Enhancing the Biocatalytic Activity of <scp>l</scp>-Asparaginase Using Aqueous Solutions of Cholinium-Based Ionic Liquids. ACS Sustainable Chemistry and Engineering, 2019, 7, 19720-19731.	3.2	12
36	High throughput approach to investigating ternary solvents of aqueous non-stoichiometric protic ionic liquids. Physical Chemistry Chemical Physics, 2019, 21, 6810-6827.	1.3	15

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37	Machine Learning Approaches for Further Developing the Understanding of the Property Trends Observed in Protic Ionic Liquid Containing Solvents. Journal of Physical Chemistry B, 2019, 123, 4085-4097.	1.2	13
38	FTIR Spectroscopic Study of the Secondary Structure of Globular Proteins in Aqueous Protic Ionic Liquids. Frontiers in Chemistry, 2019, 7, 74.	1.8	50
39	Stability and activity of lysozyme in stoichiometric and non-stoichiometric protic ionic liquid (PIL)-water systems. Journal of Chemical Physics, 2018, 148, 193838.	1.2	37
40	Mixing cations with different alkyl chain lengths markedly depresses the melting point in deep eutectic solvents formed from alkylammonium bromide salts and urea. Chemical Communications, 2017, 53, 2375-2377.	2.2	45
41	Copolyampholytes Produced from RAFT Polymerization of Protic Ionic Liquids. Macromolecules, 2017, 50, 8965-8978.	2.2	13
42	How ionic species structure influences phase structure and transitions from protic ionic liquids to liquid crystals to crystals. Faraday Discussions, 2017, 206, 29-48.	1.6	10
43	Electropolymerisation of N-Ethylanilinium Trifluoroacetate Ionic Liquid into Poly(N-Ethylaniline) and Control of its Morphology. Australian Journal of Chemistry, 2017, 70, 985.	0.5	1
44	Understanding the Effect of Solvent Structure on Organic Reaction Outcomes When Using Ionic Liquid/Acetonitrile Mixtures. Journal of Physical Chemistry B, 2016, 120, 12687-12699.	1.2	27
45	Large Scale Flow-Mediated Formation and Potential Applications of Surface Nanodroplets. ACS Applied Materials & Interfaces, 2016, 8, 22679-22687.	4.0	29
46	Revisiting the three component synthesis of isoxazolo[5,4-b]pyridines, 4-aryl-3,7,7-trimethyl-isoxazolo[5,4-b]quinolin-5(6H)-ones and related heterocycles. Polyhedron, 2016, 120, 175-179.	1.0	6
47	Using SANS with Contrast-Matched Lipid Bicontinuous Cubic Phases To Determine the Location of Encapsulated Peptides, Proteins, and Other Biomolecules. Journal of Physical Chemistry Letters, 2016, 7, 2862-2866.	2.1	23
48	Activity and conformation of lysozyme in molecular solvents, protic ionic liquids (PILs) and saltâ€“water systems. Physical Chemistry Chemical Physics, 2016, 18, 25926-25936.	1.3	35
49	Micelle formation of a non-ionic surfactant in non-aqueous molecular solvents and protic ionic liquids (PILs). Physical Chemistry Chemical Physics, 2016, 18, 24377-24386.	1.3	35
50	The effects of alkylammonium counterions on the aggregation of fluorinated surfactants and surfactant ionic liquids. Journal of Colloid and Interface Science, 2016, 475, 72-81.	5.0	22
51	Site analysis and calculation of the quadrupole splitting of Prussian Blue MÃ¶ssbauer spectra. Hyperfine Interactions, 2016, 237, 1.	0.2	6
52	Amphiphile Micelle Structures in the Protic Ionic Liquid Ethylammonium Nitrate and Water. Journal of Physical Chemistry B, 2015, 119, 179-191.	1.2	27
53	The effect of structural modifications on the solution and interfacial properties of straight and branched aliphatic alcohols: The role of hydrophobic effects. Journal of Colloid and Interface Science, 2015, 449, 364-372.	5.0	13
54	Fluorous protic ionic liquid exhibits a series of lyotropic liquid crystalline mesophases upon water addition. Journal of Molecular Liquids, 2015, 210, 279-285.	2.3	13

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55	High-throughput approach for the identification of anilinium-based ionic liquids that are suitable for electropolymerisation. Physical Chemistry Chemical Physics, 2015, 17, 17967-17972.	1.3	17
56	Protic Ionic Liquids: Evolving Structureâ€“Property Relationships and Expanding Applications. Chemical Reviews, 2015, 115, 11379-11448.	23.0	726
57	Controlling the characteristics of lamellar liquid crystals using counterion choice, fluorination and temperature. Soft Matter, 2015, 11, 261-268.	1.2	10
58	Protic ionic liquids (PILs) nanostructure and physicochemical properties: development of high-throughput methodology for PIL creation and property screens. Physical Chemistry Chemical Physics, 2015, 17, 2357-2365.	1.3	57
59	Effect of cosolvents on the self-assembly of a non-ionic polyethylene oxideâ€“polypropylene oxideâ€“polyethylene oxide block copolymer in the protic ionic liquid ethylammonium nitrate. Journal of Colloid and Interface Science, 2015, 441, 46-51.	5.0	7
60	Lyotropic liquid crystal phases of phytantriol in a protic ionic liquid with fluorous anion. Physical Chemistry Chemical Physics, 2014, 16, 21321-21329.	1.3	8
61	Linking molecular/ion structure, solvent mesostructure, the solvophobic effect and the ability of amphiphiles to self-assemble in non-aqueous liquids. Faraday Discussions, 2013, 167, 191.	1.6	30
62	Solvent nanostructure, the solvophobic effect and amphiphile self-assembly in ionic liquids. Chemical Society Reviews, 2013, 42, 1096-1120.	18.7	333
63	Fluorous protic ionic liquids exhibit discrete segregated nano-scale solvent domains and form new populations of nano-scale objects upon primary alcohol addition. Physical Chemistry Chemical Physics, 2013, 15, 7592.	1.3	28
64	Protic ionic liquids with fluorous anions: physicochemical properties and self-assembly nanostructure. Physical Chemistry Chemical Physics, 2012, 14, 7981.	1.3	96
65	Long-range ordered lyotropic liquid crystals in intermediate-range ordered protic ionic liquid used as templates for hierarchically porous silica. Journal of Materials Chemistry, 2012, 22, 10069.	6.7	25
66	Lyotropic liquid crystalline phase behaviour in amphiphileâ€“protic ionic liquid systems. Physical Chemistry Chemical Physics, 2012, 14, 3825.	1.3	47
67	Amphiphilic oligoether-based ionic liquids as functional materials for thermoresponsive ion gels with tunable properties via aqueous gelation. Soft Matter, 2012, 8, 1025-1032.	1.2	26
68	A comparative study of the electrodeposition of polyaniline from a protic ionic liquid, an aprotic ionic liquid and neutral aqueous solution using anilinium nitrate. Journal of Materials Chemistry, 2011, 21, 7622.	6.7	38
69	Nanostructure changes in protic ionic liquids (PILs) through adding solutes and mixing PILs. Physical Chemistry Chemical Physics, 2011, 13, 13501.	1.3	94
70	Nanostructure and amphiphile self-assembly in polar molecular solvents: amides and the â€œsolvophobic effectâ€. Physical Chemistry Chemical Physics, 2011, 13, 9180.	1.3	40
71	Nanostructured Protic Ionic Liquids Retain Nanoscale Features in Aqueous Solution While Precursor BrÃ¸nsted Acids and Bases Exhibit Different Behavior. Journal of Physical Chemistry B, 2011, 115, 2055-2066.	1.2	131
72	Effect of protic ionic liquids (PILs) on the formation of non-ionic dodecyl poly(ethylene oxide) surfactant self-assembly structures and the effect of these surfactants on the nanostructure of PILs. Physical Chemistry Chemical Physics, 2011, 13, 20441.	1.3	37

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73	Amino Acid-derived Protic Ionic Liquids: Physicochemical Properties and Behaviour as Amphiphile Self-assembly Media. Australian Journal of Chemistry, 2011, 64, 180.	0.5	40
74	Diversity Observed in the Nanostructure of Protic Ionic Liquids. Journal of Physical Chemistry B, 2010, 114, 10022-10031.	1.2	231
75	Diverse Ordered 3D Nanostructured Amphiphile Self-Assembly Materials Found in Protic Ionic Liquids. Journal of Physical Chemistry Letters, 2010, 1, 2651-2654.	2.1	25
76	Incorporation of the dopamine D2L receptor and bacteriorhodopsin within bicontinuous cubic lipid phases. 1. Relevance to in meso crystallization of integral membrane proteins in monoolein systems. Soft Matter, 2010, 6, 4828.	1.2	41
77	Incorporation of the dopamine D2L receptor and bacteriorhodopsin within bicontinuous cubic lipid phases. 2. Relevance to in meso crystallization of integral membrane proteins in novel lipid systems. Soft Matter, 2010, 6, 4838.	1.2	34
78	Protic Ionic Liquids:â€‰ Properties and Applications. Chemical Reviews, 2008, 108, 206-237.	23.0	2,104
79	Ionic liquids as amphiphile self-assembly media. Chemical Society Reviews, 2008, 37, 1709.	18.7	500
80	Protic Ionic Liquids:â€‰ Physicochemical Properties and Behavior as Amphiphile Self-Assembly Solvents. Journal of Physical Chemistry B, 2008, 112, 896-905.	1.2	190
81	Many Protic Ionic Liquids Mediate Hydrocarbon-Solvent Interactions and Promote Amphiphile Self-Assembly. Langmuir, 2007, 23, 402-404.	1.6	147
82	Formation of Amphiphile Self-Assembly Phases in Protic Ionic Liquids. Journal of Physical Chemistry B, 2007, 111, 4082-4088.	1.2	109
83	Protic Ionic Liquids and Ionicity. Australian Journal of Chemistry, 2007, 60, 21.	0.5	120
84	In situ MÃ¶ssbauer studies of electrochemical processes. Hyperfine Interactions, 2007, 165, 5-16.	0.2	2
85	Protic Ionic Liquids:Â Solvents with Tunable Phase Behavior and Physicochemical Properties. Journal of Physical Chemistry B, 2006, 110, 22479-22487.	1.2	458