Stephanie L Wunder

List of Publications by Year
in descending order

39	1,375	448610 19	388640 36
papers	citations	h-index	g-index

40	40	40	2387
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mechanism of Ion Conduction and Dynamics in Tris(N,N-dimethylformamide) Perchloratosodium Solid Electrolytes. Journal of Physical Chemistry C, 2022, 126, 4744-4750.	1.5	3
2	Solvate sponge crystals of (DMF)₃NaClO₄: reversible pressure/temperature controlled juicing in a melt/press-castable sodium-ion conductor. Chemical Science, 2021, 12, 5574-5581.	3.7	3
3	Gel Electrolyte Comprising Solvate Ionic Liquid and Methyl Cellulose. ACS Applied Energy Materials, 2020, 3, 279-289.	2.5	22
4	A Metalâ€“Organic Framework Thin Film for Selective Mg²⁺ Transport. Angewandte Chemie - International Edition, 2019, 58, 15313-15317.	7.2	56
5	Experimental and Theoretical Investigation of the Ion Conduction Mechanism of Tris(adiponitrile)perchloratosodium, a Self-Binding, Melt-Castable Crystalline Sodium Electrolyte. Chemistry of Materials, 2019, 31, 8850-8863.	3.2	9
6	An alternative route to single ion conductivity using multi-ionic salts. Materials Horizons, 2018, 5, 461-473.	6.4	24
7	Unravelling the structural and dynamical complexity of the equilibrium liquid grain-binding layer in highly conductive organic crystalline electrolytes. Journal of Materials Chemistry A, 2018, 6, 4394-4404.	5.2	6
8	Crystal structure and ionic conductivity of the soft solid crystal: isoquinoline3â€¢(LiCl)2. Ionics, 2018, 24, 343-349.	1.2	5
9	Engineered Interfaces in Hybrid Ceramicâ€“Polymer Electrolytes for Use in All-Solid-State Li Batteries. ACS Energy Letters, 2017, 2, 134-138.	8.8	75
10	Highly Durable, Self-Standing Solid-State Supercapacitor Based on an Ionic Liquid-Rich Ionogel and Porous Carbon Nanofiber Electrodes. ACS Applied Materials & Interfaces, 2017, 9, 33749-33757.	4.0	55
11	A Selfâ€Binding, Meltâ€Castable, Crystalline Organic Electrolyte for Sodium Ion Conduction. Angewandte Chemie, 2016, 128, 15480-15483.	1.6	6
12	High Conductivity, High Strength Solid Electrolytes Formed by in Situ Encapsulation of Ionic Liquids in Nanofibrillar Methyl Cellulose Networks. ACS Applied Materials & Interfaces, 2016, 8, 13426-13436.	4.0	67
13	High-Density Recombinant Adeno-Associated Viral Particles are Competent Vectors forIn VivoTransduction. Human Gene Therapy, 2016, 27, 971-981.	1.4	14
14	Multi-ionic lithium salts increase lithium ion transference numbers in ionic liquid gel separators. Journal of Materials Chemistry A, 2016, 4, 14380-14391.	5.2	15
15	A Selfâ€Binding, Meltâ€Castable, Crystalline Organic Electrolyte for Sodium Ion Conduction. Angewandte Chemie - International Edition, 2016, 55, 15254-15257.	7.2	21
16	Lamellar, micro-phase separated blends of methyl cellulose and dendritic polyethylene glycol, POSS-PEG. Carbohydrate Polymers, 2016, 136, 19-29.	5.1	12
17	Bulk-Phase Ion Conduction in Cocrystalline LiClÂ·N,N-Dimethylformamide: A New Paradigm for Solid Electrolytes Based upon the Pearson Hardâ€“Soft Acidâ€“Base Concept. Chemistry of Materials, 2015, 27, 5479-5482.	3.2	19
18	Effect of lamellarity and size on calorimetric phase transitions in single component phosphatidylcholine vesicles. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 532-543.	1.4	49

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19	The polyoctahedral silsesquioxane (POSS) 1,3,5,7,9,11,13,15-octaphenylpentacyclo[9.5.1.1^{3,9}.1^{5,15}.1^{7,13}]octasiloxane (octaphenyl-POSS). Acta Crystallographica Section C, Structural Chemistry, 2014, 70, 971-974.	0.7	8
20	Self-assembled Janus-like multi-ionic lithium salts form nano-structured solid polymer electrolytes with high ionic conductivity and Li⁺ion transference number. Journal of Materials Chemistry A, 2013, 1, 1731-1739.	5.2	54
21	Mechanism of supported bilayer formation of zwitterionic lipids on SiO2 nanoparticles and structure of the stable colloids. RSC Advances, 2012, 2, 11336.	1.7	14
22	Confinement Effects of Silica Nanoparticles with Radii Smaller and Larger than R_g of Adsorbed Poly(ethylene oxide). Macromolecules, 2011, 44, 2873-2882.	2.2	33
23	Hydration repulsion effects on the formation of supported lipid bilayers. Soft Matter, 2011, 7, 1936.	1.2	27
24	Polyoctahedral Silsesquioxane-Nanoparticle Electrolytes for Lithium Batteries: POSS-Lithium Salts and POSS-PEGs. Chemistry of Materials, 2011, 23, 5111-5121.	3.2	82
25	Blends of POSSâˆ’PEO(n=4)8 and High Molecular Weight Poly(ethylene oxide) as Solid Polymer Electrolytes for Lithium Batteries. Journal of Physical Chemistry B, 2007, 111, 3583-3590.	1.2	76
26	Chemical surface treatment of ultrahigh molecular weight polyethylene for improved adhesion to methacrylate resins. Journal of Applied Polymer Science, 2005, 96, 1564-1572.	1.3	51
27	Characterization of the interaction of poly(ethylene oxide) with nanosize fumed silica: Surface effects on crystallization. Journal of Polymer Science, Part B: Polymer Physics, 2003, 41, 1978-1993.	2.4	26
28	Poly(ethylene oxide) Silananted Nanosize Fumed Silica:Â DSC and TGA Characterization of the Surface. Langmuir, 2003, 19, 8994-9004.	1.6	41
29	Surface Modification of Silica with Ultrahighmolecular Weight Polyethylene (UHMWPE). Materials Research Society Symposia Proceedings, 2002, 750, 1.	0.1	0
30	Oligomeric Poly(ethylene oxide)-Functionalized Silsesquioxanes:â€‰ Interfacial Effects on Tg, Tm, and Î”Hm. Chemistry of Materials, 2002, 14, 4494-4497.	3.2	85
31	Thermal Stability of Octadecylsilane Monolayers on Silica:Â Curvature and Free Volume Effects. Journal of Physical Chemistry B, 2001, 105, 173-181.	1.2	19
32	Filler-coupling agent-matrix interactions in silica/polymethylmethacrylate composites. Journal of Biomedical Materials Research Part B, 2001, 57, 384-393.	3.0	113
33	Submicron-size particles of ultrahigh molecular weight polyethylene produced via nonsolvent and temperature-induced crystallization. , 2000, 53, 152-160.		12
34	Novel Microporous Poly(vinylidene fluoride) Blend Electrolytes for Lithium-Ion Batteries. Journal of the Electrochemical Society, 2000, 147, 2853.	1.3	147
35	Effects of Silanol Density, Distribution, and Hydration State of Fumed Silica on the Formation of Self-Assembled Monolayers ofn-Octadecyltrichlorosilane. Langmuir, 2000, 16, 5008-5016.	1.6	60
36	Weibull models of fracture strengths and fatigue behavior of dental resins in flexure and shear. , 1998, 43, 226-233.		17

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37	Surface stress of polydimethylsiloxane networks. Journal of Polymer Science, Part B: Polymer Physics, 1997, 35, 2391-2396.	2.4	9
38	NMR and FTIR investigation of the solution imidization kinetics of model compounds of PMDA/ODA polyamic ethyl ester. Journal of Polymer Science, Part B: Polymer Physics, 1996, 34, 435-448.	2.4	5
39	Molecular flexibility of polymethylene molecules: A Raman spectroscopic study. Journal of Chemical Physics, 1988, 89, 166-173.	1.2	33