

Millicent A Firestone

List of Publications by Year in descending order

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147566

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91
all docs

91
docs citations

91
times ranked

3424
citing authors

#	ARTICLE	IF	CITATIONS
1	The Design of Polymeric Ionic Liquids for the Preparation of Functional Materials. <i>Polymer Reviews</i> , 2009, 49, 339-360.	5.3	331
2	Lyotropic Liquid-Crystalline Gel Formation in a Room-Temperature Ionic Liquid. <i>Langmuir</i> , 2002, 18, 7258-7260.	1.6	229
3	Surface Functionalization of Ultrananocrystalline Diamond Films by Electrochemical Reduction of Aryldiazonium Salts. <i>Langmuir</i> , 2004, 20, 11450-11456.	1.6	162
4	Tetraalkylphosphonium Polyoxometalate Ionic Liquids: A Novel, Organic-Inorganic Hybrid Materials. <i>Journal of Physical Chemistry B</i> , 2007, 111, 4685-4692.	1.2	154
5	Small-Angle X-ray Scattering Study of the Interaction of Poly(ethylene oxide)-b-Poly(propylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 1539-1549.	2.6	149
6	Ambient-pressure superconductivity at the highest temperature (5 K) observed in an organic system: .beta.-(BEDT-TTF)2AuI2. <i>Inorganic Chemistry</i> , 1985, 24, 2465-2466.	1.9	142
7	Ionogel-Templated Synthesis and Organization of Anisotropic Gold Nanoparticles. <i>Small</i> , 2005, 1, 754-760.	5.2	90
8	Anion effects on ionogel formation in N,N-dialkylimidazolium-based ionic liquids. <i>Inorganica Chimica Acta</i> , 2004, 357, 3991-3998.	1.2	89
9	Formation of a Biomimetic, Liquid-Crystalline Hydrogel by Self-Assembly and Polymerization of an Ionic Liquid. <i>Chemistry of Materials</i> , 2007, 19, 4423-4431.	3.2	87
10	A test of superconductivity vs. molecular disorder in (BEDT-TTF)2X synthetic metals: synthesis, structure (298, 120 K), and microwave/ESR conductivity of (BEDT-TTF)2I2Br. <i>Inorganic Chemistry</i> , 1985, 24, 1736-1738.	1.9	83
11	Film Architecture in Biomolecular Assemblies. Effect of Linker on the Orientation of Genetically Engineered Surface-Bound Proteins. <i>Journal of the American Chemical Society</i> , 1996, 118, 9033-9041.	6.6	81
12	Electrochemical Activity of Glucose Oxidase on a Poly(ionic liquid)-Au Nanoparticle Composite. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 2311-2317.	4.0	59
13	The Effect of Cation Structure on the Mesophase Architecture of Self-Assembled and Polymerized Imidazolium-Based Ionic Liquids. <i>Macromolecular Chemistry and Physics</i> , 2007, 208, 1416-1427.	1.1	58
14	Interaction of Nonionic PEO-b-PPO Diblock Copolymers with Lipid Bilayers. <i>Biomacromolecules</i> , 2005, 6, 2678-2687.	2.6	57
15	Electropolymerization of a Bifunctional Ionic Liquid Monomer Yields an Electroactive Liquid-Crystalline Polymer. <i>Advanced Functional Materials</i> , 2010, 20, 2063-2070.	7.8	56
16	Phosphate-Containing Polyethylene Glycol Polymers Prevent Lethal Sepsis by Multidrug-Resistant Pathogens. <i>Antimicrobial Agents and Chemotherapy</i> , 2014, 58, 966-977.	1.4	53
17	Electron Density Mapping of Triblock Copolymers Associated with Model Biomembranes: Insights into Conformational States and Effect on Bilayer Structure. <i>Biomacromolecules</i> , 2008, 9, 1541-1550.	2.6	51
18	Crystal and band electronic structures of an organic salt with the first three-dimensional radical-cation donor network, (BEDT-TTF)Ag4(CN)5. <i>Journal of the American Chemical Society</i> , 1985, 107, 8305-8307.	6.6	50

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19	Detonation synthesis of carbon nano-onions via liquid carbon condensation. <i>Nature Communications</i> , 2019, 10, 3819.	5.8	50
20	Nanoparticle Arrays Formed by Spatial Compartmentalization in a Complex Fluid. <i>Nano Letters</i> , 2001, 1, 129-135.	4.5	45
21	Evolution of Carbon Clusters in the Detonation Products of the Triaminotrinitrobenzene (TATB)-Based Explosive PBX 9502. <i>Journal of Physical Chemistry C</i> , 2017, 121, 23129-23140.	1.5	45
22	Synthesis and structure of .zeta.-(BEDT-TTF) ₂ (I ₃)(I ₅) and (BEDT-TTF) ₂ (I ₃)(TlI ₄): comparison of the electrical properties of organic conductors derived from chemical oxidation vs. electrocrystallization. <i>Inorganic Chemistry</i> , 1987, 26, 1912-1920.	1.9	44
23	Versatile Thermochromic Supramolecular Materials Based on Competing Charge Transfer Interactions. <i>Advanced Functional Materials</i> , 2016, 26, 8604-8612.	7.8	44
24	Thermoresponsive Nanostructures by Self-Assembly of a Poly(N-isopropylacrylamide)~Lipid Conjugate. <i>Journal of the American Chemical Society</i> , 2004, 126, 2290-2291.	6.6	41
25	Ambient pressure superconductivity at 4~5 K in I ² -(BEDT-TTF) ₂ AuI ₂ . <i>Solid State Communications</i> , 1986, 57, 89-92.	0.9	39
26	Formation of a Liquid-Crystalline Interpenetrating Poly(ionic liquid) Network Hydrogel. <i>Macromolecules</i> , 2011, 44, 1421-1428.	2.2	38
27	Thiophene~based ionic liquids: synthesis, physical properties, self~assembly, and oxidative polymerization. <i>Polymers for Advanced Technologies</i> , 2008, 19, 1369-1382.	1.6	37
28	Structural and complexation properties of 2,11-diselena[3.3](2,6)pyridinophane. <i>Journal of Organic Chemistry</i> , 1989, 54, 393-399.	1.7	35
29	Structure and Optical Properties of a Thermoresponsive Polymer-Grafted, Lipid-Based Complex Fluid. <i>Langmuir</i> , 1998, 14, 4688-4698.	1.6	35
30	Correlations of Anion Size and Symmetry with the Structure and Electronic Properties of I ² -(BEDTTTF) ₂ X Conducting Salts with Trihalide Anions X = I ₃ ⁻ , I ₂ Br ⁻ , IBr ₂ ⁻ . <i>Molecular Crystals and Liquid Crystals</i> , 1986, 132, 363-383.	0.9	33
31	Electric Field Poling in Polymeric Nonlinear Optical Materials. Relaxation Dynamics, Model, and Experiment. <i>Macromolecules</i> , 1995, 28, 6296-6310.	2.2	32
32	Cytoskeleton Mimetic Reinforcement of a Self-AssembledN,N~Dialkylimidazolium Ionic Liquid Monomer by Copolymerization. <i>Macromolecules</i> , 2009, 42, 5461-5470.	2.2	29
33	Time resolved small angle X-ray scattering experiments performed on detonating explosives at the advanced photon source: Calculation of the time and distance between the detonation front and the x-ray beam. <i>Journal of Applied Physics</i> , 2017, 121, .	1.1	28
34	Capillary zone electrophoresis and isotachopheresis as alternatives to chromatographic methods for purity control of synthetic peptides. <i>Journal of Chromatography A</i> , 1987, 407, 363-368.	1.8	27
35	Magnetic Field-Induced Ordering of a Polymer-Grafted Biomembrane~Mimetic Hydrogel. <i>Journal of Physical Chemistry B</i> , 2000, 104, 2433-2438.	1.2	27
36	Greater than the sum: Synergy and emergent properties in nanoparticle~polymer composites. <i>MRS Bulletin</i> , 2015, 40, 760-767.	1.7	26

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37	Conductivity of ionic liquid-derived polymers with internal gold nanoparticle conduits. <i>Journal of Materials Chemistry</i> , 2009, 19, 8092.	6.7	25
38	Isotachophoretic zone formation of serum albumin in different free fluid electrophoresis instruments. <i>Electrophoresis</i> , 1990, 11, 298-304.	1.3	23
39	Focusing counterparts of electrical field flow fractionation and capillary zone electrophoresis. <i>Journal of Chromatography A</i> , 1989, 461, 95-101.	1.8	22
40	Ultrafiltration membranes from polymerization of self-assembled Pluronic block copolymer mesophases. <i>Journal of Membrane Science</i> , 2019, 580, 125-133.	4.1	22
41	Solvent Tunable Optical Properties of a Polymerized Vinyl- and Thienyl-Substituted Ionic Liquid. <i>Journal of Physical Chemistry B</i> , 2010, 114, 14703-14711.	1.2	21
42	Chromophore-Functionalized Glassy Polymers with Large Second-Order Nonlinear Optical Responses. Synthesis, Characterization, and Architecture-Processing-Response Characteristics of Poly(p-hydroxystyrenes) Functionalized with Chiral Chromophoric Side Chains. <i>Macromolecules</i> , 1995, 28, 2247-2259.	2.2	20
43	Extreme condition nanocarbon formation under air and argon atmospheres during detonation of composition B-3. <i>Carbon</i> , 2018, 126, 289-298.	5.4	20
44	Superconductivity above 2 K At Ambient Pressure in Iododibromide (IBr ₂) ⁺ Charge-Transfer Salts of Bis (ETHYLENEDITHIO) TETRATHIAFULVALENE, BEDT-TTF. <i>Molecular Crystals and Liquid Crystals</i> , 1985, 125, 159-168.	0.9	19
45	Chromophore-Functionalized Glassy Polymers with Large Second-Order Nonlinear Optical Responses. Transient Dynamics and Local Microstructure of Poly(p-hydroxystyrenes) As Assessed by in-Situ Second Harmonic Generation Techniques. <i>Macromolecules</i> , 1995, 28, 2260-2269.	2.2	18
46	Polymerization in soft nanoconfinement of lamellar and reverse hexagonal mesophases. <i>Soft Matter</i> , 2019, 15, 8238-8250.	1.2	18
47	Self-Assembled, Mesoporous Polymeric Networks for Patterned Protein Arrays. <i>Langmuir</i> , 2005, 21, 10301-10306.	1.6	17
48	Electron-Transfer Dynamics of Photosynthetic Reaction Centers in Thermoresponsive Soft Materials. <i>Journal of Physical Chemistry B</i> , 2005, 109, 23679-23686.	1.2	17
49	Crystal and band electronic structures of orthorhombic β -(BEDT-TTF) ₂ AuI ₂ . <i>Solid State Communications</i> , 1986, 57, 741-744.	0.9	16
50	Structural evolution of detonation carbon in composition B by X-ray scattering. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	16
51	Preparation of a solution-processable, nanostructured ionic polyacetylene. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2013, 51, 1215-1227.	2.4	15
52	Measurement of carbon condensates using small-angle x-ray scattering during detonation of high explosives. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	15
53	Acidichromic Spiropyran-Functionalized Mesoporous Silica: Towards Stimuli-Responsive Metal Ion Separations Media. <i>Separation Science and Technology</i> , 2008, 43, 2503-2519.	1.3	13
54	Patterning a π -conjugated polyelectrolyte through sequential polymerization of a bifunctional ionic liquid monomer. <i>Polymer</i> , 2014, 55, 3370-3377.	1.8	13

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55	Multiscale additive manufacturing of polymers using 3D photo-printable self-assembling ionic liquid monomers. <i>Molecular Systems Design and Engineering</i> , 2019, 4, 580-585.	1.7	13
56	Capillary isoelectric focusing using an LKB 2127 tachophor isotachophoretic analyzer. <i>Journal of Chromatography A</i> , 1988, 436, 309-315.	1.8	12
57	Conventional Aspects of Unconventional Solvents: Room Temperature Ionic Liquids as Ion-Exchangers and Ionic Surfactants. <i>ACS Symposium Series</i> , 2003, , 526-543.	0.5	10
58	Evaluation of the Photosynthetic Reaction Center Protein for Potential Use as a Bioelectronic Circuit Element. <i>Biotechnology Progress</i> , 2007, 23, 985-989.	1.3	10
59	Self-Assembly Directed Organization of Nanodiamond During Ionic Liquid Crystalline Polymer Formation. <i>Macromolecular Rapid Communications</i> , 2016, 37, 1155-1167.	2.0	9
60	Design principles from multiscale simulations to predict nanostructure in self-assembling ionic liquids. <i>Faraday Discussions</i> , 2018, 206, 159-181.	1.6	9
61	Elasticity and yielding of mesophases of block copolymers in water-oil mixtures. <i>Soft Matter</i> , 2019, 15, 5626-5637.	1.2	9
62	Cascade synthesis of a gold nanoparticle-network polymer composite. <i>Nanoscale</i> , 2016, 8, 2601-2612.	2.8	8
63	Structure and dynamics of ionic liquids: general discussion. <i>Faraday Discussions</i> , 2018, 206, 291-337.	1.6	8
64	Phase behaviour and thermodynamics: general discussion. <i>Faraday Discussions</i> , 2017, 206, 113-139.	1.6	8
65	Preparation of a self-supporting cell architecture mimic by water channel confined photocrosslinking within a lamellar structured hydrogel. <i>Soft Matter</i> , 2011, 7, 9695.	1.2	7
66	Installation of a reactive site for covalent wiring onto an intrinsically conductive poly(ionic liquid). <i>Reactive and Functional Polymers</i> , 2014, 85, 69-76.	2.0	7
67	Reversible hierarchical structure induced by solvation and temperature modulation in an ionic liquid-based random bottlebrush copolymer. <i>Polymer Chemistry</i> , 2018, 9, 5200-5214.	1.9	7
68	Dynamic Control over Aqueous Poly(butadiene- <i>i</i> -ethylene oxide) Self-Assembly through Olefin Metathesis. <i>Macromolecules</i> , 2018, 51, 6543-6551.	2.2	7
69	pH- and Ionic-Strength-Induced Structural Changes in Poly(acrylic acid)-Lipid-Based Self-Assembled Materials. <i>Macromolecular Symposia</i> , 2009, 281, 126-134.	0.4	6
70	The Synthesis, Crystal Structure, Electrical Conductivity and Band Electronic Structure of (BPD ⁺ -TTF) ²⁺ Cl ⁻ ₂ . <i>Molecular Crystals and Liquid Crystals</i> , 1987, 148, 233-248.	0.9	5
71	Synthesis and application of a metal ion coordinating ionic liquid monomer: Towards size and dispersity control of nanoparticles formed within a structured polyelectrolyte. <i>European Polymer Journal</i> , 2018, 107, 275-286.	2.6	5
72	Multi-stimuli responsive tetra-PPO ₆₀ -PEO ₂₀ ethylene diamine block copolymer enables pH, temperature, and solvent regulation of Au nanoparticle composite plasmonic response. <i>Polymer Chemistry</i> , 2019, 10, 6456-6472.	1.9	5

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73	Multi-length scale evaluation of the temperature-tunable mechanical properties of a lyotropic mesophase. <i>Polymer Journal</i> , 2013, 45, 179-187.	1.3	4
74	Reorganization of Ternary Lipid Mixtures of Nonphosphorylated Phosphatidylinositol Interacting with Angiomotin. <i>Journal of Physical Chemistry B</i> , 2018, 122, 8404-8415.	1.2	4
75	Carbon clusters formed from shocked benzene. <i>Nature Communications</i> , 2021, 12, 5202.	5.8	4
76	Photochromic and Optical Birefringence Properties of Azo-Dye-Doped Polymer-Grafted Lipid-Based Complex Fluids. <i>Macromolecules</i> , 2005, 38, 8971-8974.	2.2	3
77	Reversible Lifting of Surface Supported Lipid Bilayers with a Membrane-Spanning Nonionic Triblock Copolymer. <i>Biomacromolecules</i> , 2017, 18, 1097-1107.	2.6	3
78	3D Volumetric Structural Hierarchy Induced by Colloidal Polymerization of a Quantum-Dot Ionic Liquid Monomer Conjugate. <i>Macromolecules</i> , 2020, 53, 2822-2833.	2.2	3
79	Determination of Chloride by Molecular Absorption Spectrophotometry in the Gas Phase Following Oxidation. <i>Analytical Letters</i> , 1985, 18, 985-994.	1.0	2
80	Design and fabrication of a multilayer micro-/nanofluidic device with an electrically driven nanovalve. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2008, 26, 752-756.	0.9	2
81	Soft nanoconfinement of ionic liquids in lyotropic liquid crystals. <i>Soft Matter</i> , 2021, 17, 8118-8129.	1.2	2
82	Thermochromic Materials: Versatile Thermochromic Supramolecular Materials Based on Competing Charge Transfer Interactions (<i>Adv. Funct. Mater.</i> 47/2016). <i>Advanced Functional Materials</i> , 2016, 26, 8566-8566.	7.8	1
83	Aqueous density fractionation of nanocarbons from colliding-wave PBX9502 detonation soot. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	1
84	Nanocarbons produced by nitromethane detonations in air: Insights into the role of H ₂ O and O ₂ . <i>AIP Conference Proceedings</i> , 2020, , .	0.3	1
85	Ultrananocrystalline Diamond-Biomolecular Composites: Towards BioMEMS. <i>Materials Research Society Symposia Proceedings</i> , 2003, 773, 1141.	0.1	1
86	Synthesis and Characterization of Mesostructured Silicas and Gold Frameworks as Active Matrices for Biomolecule Encapsulation. <i>Advances in Science and Technology</i> , 2006, 51, 30.	0.2	0
87	Modeling Block Copolymer Interactions with Biomimetic Membranes. <i>Materials Research Society Symposia Proceedings</i> , 2006, 950, 1.	0.1	0
88	Toward Understanding the Role of Angiomotin Lipid Binding in Cellular Proliferation and Migration. <i>Biophysical Journal</i> , 2013, 104, 594a.	0.2	0
89	Bio-Lithography: A Novel Process for Modification and Patterning of Supported Lipid Bilayers using Lipopolysaccharide, a Biological Amphiphile. <i>Biophysical Journal</i> , 2015, 108, 487a.	0.2	0
90	Ionic liquids at interfaces: general discussion. <i>Faraday Discussions</i> , 2018, 206, 549-586.	1.6	0

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91	Synergistic single process additive manufacturing of hydro-responsive Ag nanoparticle composites by digital visible light processing 3D printing. <i>Materials Advances</i> , 2020, 1, 2219-2224.	2.6	0