

Pradip K Bhowmik

List of Publications by Year in descending order

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331670

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92
all docs

92
docs citations

92
times ranked

1450
citing authors

#	ARTICLE	IF	CITATIONS
1	Ionic liquids as solvents for biopolymers: Acylation of starch and zein protein. Carbohydrate Polymers, 2006, 66, 546-550.	10.2	273
2	Wholly aromatic liquid-crystalline polyesters. Progress in Polymer Science, 1997, 22, 1431-1502.	24.7	104
3	Ambient temperature thermotropic liquid crystalline viologen bis(triflimide) salts. Liquid Crystals, 2003, 30, 1433-1440.	2.2	58
4	Room-Temperature Thermotropic Ionic Liquid Crystals: Viologen Bis(Triflimide) Salts. Molecular Crystals and Liquid Crystals, 2004, 419, 27-46.	0.9	48
5	Synthesis and characterization of poly(pyridinium salt)s with oxyalkylene units exhibiting amphotropic liquid-crystalline and photoluminescence properties. Polymer, 2008, 49, 1748-1760.	3.8	38
6	Synthesis and characterization of extended rod thermotropic polyesters with polyoxyethylene pendant substituents. Polymer, 1991, 32, 1703-1712.	3.8	36
7	Crystalline and liquid-crystalline properties of polyesters of phenyl-substituted 4,4'-biphenol. 1. Polymers from terephthalic acid and 2,6-naphthalenedicarboxylic acid. Macromolecules, 1993, 26, 440-446.	4.8	36
8	Fully aromatic liquid-crystalline polyesters of phenyl-substituted 4,4'-biphenols and 1,1'-binaphthyl-4,4'-diol with either 2-bromoterephthalic acid or 2-phenylterephthalic acid. Macromolecules, 1993, 26, 5287-5294.	4.8	35
9	Synthesis and Characterization of Poly(pyridinium salt)s with Organic Counterion Exhibiting Both Lyotropic Liquid-Crystalline and Light-Emitting Properties. Macromolecules, 2001, 34, 7579-7581.	4.8	34
10	Main-chain viologen polymers with organic counterions exhibiting thermotropic liquid-crystalline and fluorescent properties. Journal of Polymer Science Part A, 2002, 40, 659-674.	2.3	34
11	Synthesis and Characterization of Poly(pyridinium salt)s with Organic Counterions Exhibiting Both Thermotropic Liquid-Crystalline and Light-Emitting Properties. Macromolecules, 2004, 37, 2688-2694.	4.8	34
12	Synthesis and characterization of poly(pyridinium salt)s with organic counterion exhibiting both lyotropic liquid-crystalline and light-emitting properties. Journal of Polymer Science Part A, 2001, 39, 2710-2715.	2.3	31
13	Trajectory calculations of ion-quadrupolar molecule collision rate constants. Journal of Chemical Physics, 1986, 84, 1432-1434.	3.0	29
14	Lyotropic Liquid Crystalline Main-Chain Viologen Polymers: Homopolymer of 4,4'-Bipyridyl with the Ditosylate of trans-1,4-Cyclohexanedimethanol and Its Copolymers with the Ditosylate of 1,8-Octanediol. Macromolecules, 1998, 31, 621-630.	4.8	28
15	Synthesis and characterization of poly(pyridinium salt)s with organic counterions exhibiting both thermotropic liquid-crystalline and light-emitting properties. Journal of Polymer Science Part A, 2006, 44, 1028-1041.	2.3	27
16	Synthesis and characterization of poly(pyridinium salt)s with organic counterion exhibiting both lyotropic liquid-crystalline and light-emitting properties. Polymer, 2002, 43, 1953-1958.	3.8	26
17	Photoactive amorphous molecular materials based on quinoline amines and their synthesis by Friedländer condensation reaction. Tetrahedron, 2010, 66, 9319-9326.	1.9	24
18	Synthesis and characterization of poly(pyridinium salt)s with anthracene moieties exhibiting both lyotropic liquid-crystalline and UV light-emitting properties. Polymer, 2006, 47, 8281-8288.	3.8	23

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19	Synthesis and characterisation of thermotropic liquid-crystalline properties of azomethine dimers. <i>Liquid Crystals</i> , 2009, 36, 1389-1399.	2.2	23
20	Ionic liquid crystals: Synthesis and characterization via NMR, DSC, POM, X-ray diffraction and ionic conductivity of asymmetric viologen bistriflimide salts. <i>Journal of Molecular Liquids</i> , 2021, 328, 115370.	4.9	22
21	Crystalline and liquid-crystalline properties of polyesters of phenyl-substituted 4,4'-biphenol. 2. Copolymers with 4-hydroxybenzoic acid. <i>Macromolecules</i> , 1993, 26, 447-451.	4.8	21
22	Fully aromatic thermotropic liquid crystalline polyesters of 3,4-dihydroxybenzophenone. <i>Journal of Polymer Science Part A</i> , 1994, 32, 343-354.	2.3	21
23	Lyotropic liquid crystalline main-chain viologen polymers. <i>Journal of Polymer Science Part A</i> , 1995, 33, 1745-1749.	2.3	21
24	Solution, thermal and optical properties of new poly(pyridinium salt)s derived from bisquinoline diamines. <i>Polymer Chemistry</i> , 2010, 1, 908.	3.9	21
25	Solution, thermal and optical properties of bis(pyridinium salt)s as ionic liquids. <i>Materials Chemistry and Physics</i> , 2013, 139, 901-910.	4.0	20
26	Parametrization of the trajectory calculations on ion-quadrupolar molecule collision rate constants. <i>Journal of Chemical Physics</i> , 1991, 94, 6444-6445.	3.0	19
27	New histone demethylase LSD1 inhibitor selectively targets teratocarcinoma and embryonic carcinoma cells. <i>Bioorganic and Medicinal Chemistry</i> , 2018, 26, 1523-1537.	3.0	19
28	Thermotropic polyesters with flexible spacers in the main chain and oligo(oxyethylene) substituents. <i>Die Makromolekulare Chemie</i> , 1991, 192, 415-425.	1.1	18
29	Thermotropic liquid crystalline main-chain viologen polymers. <i>Journal of Polymer Science Part A</i> , 1995, 33, 1927-1933.	2.3	18
30	Synthesis and Characterization of Birnessite and Cryptomelane Nanostructures in Presence of Hoffmeister Anions. <i>Journal of Nanomaterials</i> , 2009, 2009, 1-8.	2.7	18
31	Thermotropic liquid-crystalline polyesters of 4,4'-biphenol and phenyl-substituted 4,4'-biphenols with 4,4'-oxybisbenzoic acid. <i>Journal of Polymer Science Part A</i> , 2002, 40, 141-155.	2.3	17
32	Main-chain, thermotropic, liquid-crystalline, hydrogen-bonded polymers of 4,4'-bipyridyl with aliphatic dicarboxylic acids. <i>Journal of Polymer Science Part A</i> , 2003, 41, 1282-1295.	2.3	17
33	Thermotropic liquid crystalline main-chain viologen polymers: Homopolymer-of 4,4'-bipyridyl with ditosylate of trans-1,4-cyclohexanedimethanol and its copolymers with ditosylate of 1,8-octanediol. <i>Journal of Polymer Science Part A</i> , 1994, 32, 3205-3209.	2.3	16
34	Synthesis and characterization of ionic liquids: viologen bis{tetrakis[3,5-bis(trifluoromethyl)phenyl]borate} salts. <i>Liquid Crystals</i> , 2006, 33, 891-906.	2.2	16
35	Thermotropic liquid-crystalline properties of extended viologen bis(triflimide) salts. <i>Liquid Crystals</i> , 2018, 45, 872-885.	2.2	16
36	Direct detection of ionic clustering in telechelic ionomers by DSC and ESR. <i>Macromolecules</i> , 1993, 26, 3340-3343.	4.8	15

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37	Main-chain ionene polymers based on trans-1,2-bis(4-pyridyl)ethylene exhibiting both thermotropic liquid-crystalline and light-emitting properties. <i>Journal of Polymer Science Part A</i> , 2006, 44, 1541-1554.	2.3	15
38	Synthesis and characterization of inorganic double helices of cryptomelane nanomaterials. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2006, 289, 185-192.	4.7	15
39	Synthesis, optical, and thermal properties of conjugated, bispyridyl and tetrapyridyl compounds by Knoevenagel reaction. <i>Tetrahedron Letters</i> , 2007, 48, 5383-5387.	1.4	15
40	The Effect of Stirring on the Morphology of Birnessite Nanoparticles. <i>Journal of Nanomaterials</i> , 2008, 2008, 1-9.	2.7	15
41	Solution, thermal, and optical properties of poly(pyridinium salt)s derived from an ambipolar diamine consisting of diphenylquinoline and triphenyl amine moieties. <i>Journal of Polymer Science Part A</i> , 2010, 48, 4611-4620.	2.3	15
42	Dispersion of single-walled carbon nanotubes with poly(pyridinium salt)s. <i>Polymer Chemistry</i> , 2011, 2, 1953.	3.9	15
43	Synthesis and characterization of poly(pyridinium salt)s derived from various aromatic diamines. <i>Polymer</i> , 2012, 53, 1063-1071.	3.8	15
44	Thermotropic copolyesters of a series of aromatic diols with phenylterephthalic acid and 4,4'-oxybisbenzoic acid. <i>Journal of Polymer Science Part A</i> , 1993, 31, 1001-1006.	2.3	14
45	A New Method of Synthesizing Black Birnessite Nanoparticles: From Brown to Black Birnessite with Nanostructures. <i>Journal of Nanomaterials</i> , 2008, 2008, 1-8.	2.7	14
46	Poly(pyridinium salt)s with organic counterions derived from an aromatic diamine containing oxyethylene unit exhibiting amphotropic liquid-crystalline and photoluminescence properties. <i>Polymer</i> , 2009, 50, 3128-3135.	3.8	14
47	Design and synthesis of photoactive ionic amorphous molecular materials. <i>Journal of Materials Chemistry</i> , 2011, 21, 12717.	6.7	13
48	Crystalline and Liquid Crystalline Polyesters of Phenyl-Substituted 4,4'-Biphenols and 1,1'-Binaphthyl-4,4'-diol. 3. Copolymers with 6-Hydroxy-2-naphthoic Acid. <i>Macromolecules</i> , 1996, 29, 1910-1917.	4.8	12
49	Room temperature thermotropic liquid crystalline phases of cationic surfactants derived from quaternary ammonium surfactants and bis(2-ethylhexyl)sulfosuccinate. <i>Journal of Colloid and Interface Science</i> , 2013, 411, 61-68.	9.4	12
50	Fully aromatic thermotropic liquid crystalline homopolyesters of 3,4'-benzophenone dicarboxylic acid. <i>Journal of Polymer Science Part A</i> , 1994, 32, 333-342.	2.3	11
51	Solution, thermal and optical properties of new poly(pyridinium salt)s derived from conjugated quinoline diamines. <i>Journal of Polymer Science Part A</i> , 2011, 49, 1907-1918.	2.3	11
52	Synthesis and characterization of luminescent tricationic salts of mesitylene and stilbazolium moieties. <i>Journal of Molecular Structure</i> , 2012, 1019, 174-182.	3.6	11
53	Soluble viologen polymers as carbohydrate oxidation catalysts for alkaline carbohydrate fuel cells. <i>Journal of Electroanalytical Chemistry</i> , 2018, 823, 416-421.	3.8	11
54	Thermotropic Liquid-Crystalline and Light-Emitting Properties of Bis(4-alkoxyphenyl) Viologen Bis(triflimide) Salts. <i>Molecules</i> , 2020, 25, 2435.	3.8	11

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55	Fully aromatic liquid crystalline homopolyesters and copolyesters of 1,1'-binaphthyl-4,4'-diol. Journal of Polymer Science Part A, 1994, 32, 651-659.	2.3	10
56	Wholly aromatic thermotropic liquid crystalline polyesters of 3,3'-bis(phenyl)-4,4'-biphenol with 4,4'-benzophenone dicarboxylic acid. Journal of Polymer Science Part A, 1997, 35, 769-785.	2.3	10
57	Synthesis and characterization of two phases of manganese oxide from decomposition of permanganate in concentrated sulfuric acid at ambient temperature. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2007, 307, 62-70.	4.7	10
58	Solution, thermal and optical properties of novel poly(pyridinium salt)s derived from conjugated pyridine diamines. Journal of Polymer Science Part A, 2010, 48, 4408-4418.	2.3	10
59	Thermotropic Liquid-Crystalline Properties of Viologens Containing 4-n-alkylbenzenesulfonates. Crystals, 2019, 9, 77.	2.2	10
60	Wholly aromatic thermotropic liquid crystalline polyesters of 4,4'-biphenol, substituted biphenols, and 1,1'-binaphthyl-4,4'-diol with 3,4'-benzophenone dicarboxylic acid. Journal of Polymer Science Part A, 1995, 33, 211-225.		9
61	Main-chain viologen polymers with triflimide counterion exhibiting lyotropic liquid-crystalline properties in polar organic solvents. Journal of Polymer Science Part A, 2002, 40, 2015-2024.	2.3	9
62	Synthesis, optical spectroscopy and laser potential of pyrylium tosylates. Journal of Molecular Structure, 2018, 1171, 458-465.	3.6	9
63	Phosphine Oxide Containing Poly(pyridinium salt)s as Fire Retardant Materials. Polymers, 2019, 11, 1141.	4.5	9
64	Synthesis, optical, and thermal properties of 2,4,6-tris(4-substituted phenyl)pyrylium tosylates and triflimides. Journal of Molecular Structure, 2020, 1202, 127325.	3.6	9
65	Trajectory calculations of high temperature and kinetic energy dependent ion-polar molecule collision rate constants. Journal of Chemical Physics, 1989, 90, 7046-7049.	3.0	8
66	Fully aromatic thermotropic liquid crystalline polyesters of substituted 4,4'-biphenols. IV. Homopolyesters with terephthalic acid and copolyesters with terephthalic acid and 4-hydroxybenzoic acid. Journal of Polymer Science Part A, 1993, 31, 2115-2122.	2.3	8
67	Main chain, thermotropic, liquid crystalline, hydrogen-bonded polymers of 4,4'-bipyridyl with 4,4'-dicarboxy-1,1'-diphenoxyalkanes. Liquid Crystals, 2007, 34, 841-854.	2.2	8
68	Crystalline and Liquid Crystalline Polyesters of Phenyl-Substituted 4,4'-Biphenols. 5. Copolymers with 4,4'-Oxybis(benzoic acid). Macromolecules, 1996, 29, 3778-3786.	4.8	7
69	Poly(pyridinium salt)s with organic counterions derived from an aromatic diamine containing tetraoxyethylene units exhibiting amphotropic liquid-crystalline and photoluminescence properties. Journal of Applied Polymer Science, 2010, 116, 1197-1206.	2.6	7
70	Dispersion of Single-Walled Carbon Nanotubes with Poly(Pyridinium Salt)s Containing Various Rigid Aromatic Moieties. Macromolecular Chemistry and Physics, 2012, 213, 1378-1384.	2.2	6
71	Purine nucleotide cations. 2. Energetics and conformational effects on protonation-deprotonation of purine nucleoside. The Journal of Physical Chemistry, 1989, 93, 3327-3334.	2.9	5
72	Synthesis, thermal and lyotropic liquid crystalline properties of protic ionic salts. Liquid Crystals, 2008, 35, 757-764.	2.2	5

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73	Isothermal titration calorimetry, transmission electron microscopy, and field emission scanning electron microscopy of a main-chain viologen polymer containing bromide as counterions. <i>Polymer</i> , 2009, 50, 2393-2401.	3.8	5
74	Synthesis, Thermal, and Light-Emitting Properties of Anthracene Derivatives. <i>Molecular Crystals and Liquid Crystals</i> , 2009, 501, 125-137.	0.9	5
75	Synthesis of [PtCl ₂ (4,4'-dialkoxy-2,2'-bipyridine)] complexes and their in vitro anticancer properties. <i>Metallomics</i> , 2013, 5, 973.	2.4	5
76	Photoactive amorphous molecular materials based on bisquinoline diamines and their synthesis by FriedlÄnder condensation reaction. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2014, 283, 45-55.	3.9	5
77	Thermotropic liquidâ€“crystalline properties of 4,4'-dialkoxy-3,3'-diaminobiphenyl compounds and their precursors. <i>Liquid Crystals</i> , 2016, 43, 1560-1577.	2.2	5
78	Poly(Pyridinium Salt)s Containing 2,7-Diamino-9,9'-Dioctylfluorene Moieties with Various Organic Counterions Exhibiting Both Lyotropic Liquid-Crystalline and Light-Emitting Properties. <i>Molecules</i> , 2021, 26, 1560.	3.8	5
79	Dicationic stilbazolium salts: Structural, thermal, optical, and ionic conduction properties. <i>Journal of Molecular Liquids</i> , 2021, 341, 117311.	4.9	5
80	Crystallinity of fully aromatic thermotropic polyesters of 3,3'-bis(phenyl)-4,4'-biphenol and 1,1'-binaphthyl-4,4'-diol. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1994, 32, 1023-1031.	2.1	4
81	Fully aromatic thermotropic liquid crystalline polyesters of 3-phenyl-4,4'-biphenol with 4,4'-benzophenone dicarboxylic acid. <i>Journal of Polymer Science Part A</i> , 1995, 33, 415-426.	2.3	4
82	Characterization of an Inorganic Cryptomelane Nanomaterial Synthesized by a Novel Process Using Transmission Electron Microscopy and X-Ray Diffraction. <i>Microscopy and Microanalysis</i> , 2008, 14, 328-334.	0.4	4
83	Thermotropic Liquid-Crystalline and Light-Emitting Properties of Poly(pyridinium) Salts Containing Various Diamine Connectors and Hydrophilic Macrocounterions. <i>Polymers</i> , 2019, 11, 851.	4.5	4
84	Thermotropic mesomorphism in cationic surfactants synthesized from quaternary ammonium surfactants and sodium dodecylbenzenesulfonate: Effect of chain length and symmetry. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 461, 40-49.	4.7	3
85	Poly(pyridinium salt)s with organic counterions derived from 3,3'-dimethylnaphthidine: thermal, liquid crystalline, and optical properties. <i>Journal of Polymer Research</i> , 2015, 22, 1.	2.4	3
86	Protonation-deprotonation of purines and purine nucleosides. <i>Computational and Theoretical Chemistry</i> , 1989, 183, 381-392.	1.5	2
87	Design and Synthesis of n-Type Organicâ€“Inorganic Hybrid Material Incorporating CdSe Quantum Dots Nanocrystal Core and Diphenylquinoline Peripheral Group. <i>Macromolecules</i> , 2008, 41, 7790-7793.	4.8	2
88	Special Issue Editorial: Current Advances in Liquid Crystals. <i>Molecules</i> , 2021, 26, 3713.	3.8	2
89	Electrocatalytic Oxidation of Carbohydrates via Surface-Immobilized Viologen. <i>Journal of the Electrochemical Society</i> , 2021, 168, 104516.	2.9	2
90	Effect of Oxygen and Zn ²⁺ on the Thermal Transitions and Cu ²⁺ Complexation in Amine-Terminated Telechelic Polybutadiene: DSC and ESR Studies. <i>Macromolecules</i> , 1995, 28, 3351-3359.	4.8	1

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91	Preparation and molecular structure of lanthanum(III)-DTBbpy complexes. <i>Inorganica Chimica Acta</i> , 2019, 489, 115-119.	2.4	1
92	Synthesis and Structure of Di(1,2,4,6-tetraphenylpyridinium) Octachlorodirhenate(III). <i>Crystallography Reports</i> , 2018, 63, 570-573.	0.6	0