Jean Le Bideau

List of Publications by Year
in descending order

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77 papers	4,968 citations	147801 31 h-index	91884 69 g-index
79 all docs	79 docs citations	79 times ranked	5539 citing authors

#	Article	IF	Citations
1	Ionogels, ionic liquid based hybrid materials. Chemical Society Reviews, 2011, 40, 907-925.	38.1	1,059
2	Ionogels, New Materials Arising from the Confinement of Ionic Liquids within Silica-Derived Networks. Chemistry of Materials, 2006, 18, 3931-3936.	6.7	394
3	Challenges and prospects of 3D micro-supercapacitors for powering the internet of things. Energy and Environmental Science, 2019, 12, 96-115.	30.8	297
4	Luminescent Ionogels Based on Europium-Doped Ionic Liquids Confined within Silica-Derived Networks. Chemistry of Materials, 2006, 18, 5711-5715.	6.7	231
5	Use of ionic liquids in sol-gel; ionogels and applications. Comptes Rendus Chimie, 2010, 13, 242-255.	0.5	177
6	Preparation, Structure, and Magnetic Properties of Copper(II) Phosphonates. .beta.-CuII(CH3PO3), an Original Three-Dimensional Structure with a Channel-Type Arrangement. Inorganic Chemistry, 1994, 33, 4885-4890.	4.0	167
7	Effect of confinement on ionic liquids dynamics in monolithic silica ionogels: 1H NMR study. Physical Chemistry Chemical Physics, 2007, 9, 5419.	2.8	144
8	Lanthanide-doped luminescent ionogels. Dalton Transactions, 2009, , 298-306.	3.3	142
9	A route to heat resistant solid membranes with performances of liquid electrolytes. Chemical Communications, 2005, , 1082-1084.	4.1	139
10	Hybrid Organic-Inorganic Materials Based on Organophosphorus Derivatives. Topics in Current Chemistry, 0, , 145-174.	4.0	120
11	Toward fast and cost-effective ink-jet printing of solid electrolyte for lithium microbatteries. Journal of Power Sources, 2015, 274, 1085-1090.	7.8	105
12	Ink-jet printed porous composite LiFePO 4 electrode from aqueous suspension for microbatteries. Journal of Power Sources, 2015, 287, 261-268.	7.8	95
13	Innovative strategies for intervertebral disc regenerative medicine: From cell therapies to multiscale delivery systems. Biotechnology Advances, 2018, 36, 281-294.	11.7	95
14	Synthesis, structure, and magnetic properties of a new lamellar iron phosphonate, FeII(C2H5PO3).H2O. Chemistry of Materials, 1993, 5, 583-587.	6.7	93
15	Hybrid Silicaâ€“Polymer Ionogel Solid Electrolyte with Tunable Properties. Advanced Energy Materials, 2014, 4, 1301570.	19.5	86
16	Solidâ€State Electrode Materials with Ionicâ€Liquid Properties for Energy Storage: the Lithium Solidâ€State Ionicâ€Liquid Concept.. Advanced Functional Materials, 2011, 21, 4073-4078.	14.9	84
17	High Areal Energy 3Dâ€Interdigitated Microâ€Supercapacitors in Aqueous and Ionic Liquid Electrolytes. Advanced Materials Technologies, 2017, 2, 1700126.	5.8	77
18	Synthesis of Stable Organo(bis-silanetriols): X-Ray Powder Structure of 1,4-Bis(trihydroxysilyl)benzene. Angewandte Chemie - International Edition, 2000, 39, 4533-4537.	13.8	71

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19	Versatile heat resistant solid electrolytes with performances of liquid electrolytes. Progress in Solid State Chemistry, 2005, 33, 217-222.	7.2	70
20	High temperature solid-state supercapacitor designed with ionogel electrolyte. Energy Storage Materials, 2019, 21, 439-445.	18.0	66
21	Wide-voltage-window silicon nanowire electrodes for micro-supercapacitors via electrochemical surface oxidation in ionic liquid electrolyte. Electrochemistry Communications, 2014, 41, 31-34.	4.7	61
22	Preparation and structure of copper(II) ethylphosphonate. Structural transition between its hydrated and dehydrated forms. Inorganic Chemistry, 1993, 32, 4617-4620.	4.0	60
23	Destructuring ionic liquids in ionogels: enhanced fragility for solid devices. Physical Chemistry Chemical Physics, 2014, 16, 23639-23645.	2.8	51
24	Solder-reflow resistant solid-state micro-supercapacitors based on ionogels. Journal of Materials Chemistry A, 2016, 4, 11835-11843.	10.3	50
25	Nanocomposite hydrogels for cartilage tissue engineering: mesoporous silica nanofibers interlinked with siloxane derived polysaccharide. Journal of Materials Science: Materials in Medicine, 2013, 24, 1875-1884.	3.6	47
26	All Solid-State Symmetrical Activated Carbon Electrochemical Double Layer Capacitors Designed with Ionogel Electrolyte. ECS Electrochemistry Letters, 2014, 3, A112-A115.	1.9	45
27	Biopolymer based nanocomposite ionogels: high performance, sustainable and solid electrolytes. Green Chemistry, 2014, 16, 1149-1152.	9.0	44
28	Immobilization of ionic liquids in translucent tin dioxide monoliths by solâ€“gel processing. Dalton Transactions, 2009, , 1307.	3.3	39
29	Silicon nanowires and nanotrees: elaboration and optimization of new 3D architectures for high performance on-chip supercapacitors. RSC Advances, 2016, 6, 81017-81027.	3.6	38
30	Design Polysaccharides of Marine Origin: Chemical Modifications to Reach Advanced Versatile Compounds. Current Organic Chemistry, 2014, 18, 867-895.	1.6	38
31	Ion segregation in an ionic liquid confined within chitosan based chemical ionogels. Physical Chemistry Chemical Physics, 2015, 17, 23947-23951.	2.8	37
32	Enhancement of lithium transport by controlling the mesoporosity of silica monoliths filled by ionic liquids. New Journal of Chemistry, 2016, 40, 4269-4276.	2.8	34
33	Synthesis of calcium-deficient hydroxyapatite nanowires and nanotubes performed by template-assisted electrodeposition. Materials Science and Engineering C, 2019, 98, 333-346.	7.3	33
34	Toward Prediction of Magnetic Properties in Layered Vanadyl Phosphonates:â€‰ Correlation of Magnetic Exchange with the Hammett Ïƒ Parameter. Journal of the American Chemical Society, 1997, 119, 1313-1316.	13.7	32
35	Pullulan microbeads/Si-HPMC hydrogel injectable system for the sustained delivery of GDF-5 and TGF-Î²1: new insight into intervertebral disc regenerative medicine. Drug Delivery, 2017, 24, 999-1010.	5.7	32
36	Mixed 1Dâ^'2D Inorganic Polymeric Zinc Ferrocenylphosphonate:Â Crystal Structure and Electrochemical Study. Journal of the American Chemical Society, 2004, 126, 12090-12096.	13.7	31

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37	Improved synthesis of diethyl ferrocenylphosphonate, crystal structure of (FcPO3Et2)2Â·ZnCl2, and electrochemistry of ferrocenylphosphonates, FcP(O)(OR)2, FcCH2P(O)(OR)2, 1,1â€²-fc[P(O)(OR)2]2 and [FcP(O)(OEt)2]2Â·ZnCl2 (Fc=(Î·5C5H5)Fe(Î·5C5H4), fc=(Î·5C5H4)Fe(Î·5C5H4), R=Et, H). Journal of Organometallic Chemistry, 2004, 689, 2654-2661.	1.8	30
38	A new family of 2D antiferromagnets: the layered phosphonates MII (RPO3) Â· H2O; M î—» Mn, Fe, Co, Ni; R = alkyl, phenyl. Journal of Magnetism and Magnetic Materials, 1995, 140-144, 1719-1720.	2.3	29
39	Polarized-Dependent IR ATR Study for the Structural Characterization of Solid-State Phosphonates:Â Case of Aluminum (4-Carboxyphenyl)methylphosphonate. Chemistry of Materials, 2003, 15, 1950-1956.	6.7	29
40	Ionogel based on biopolymerâ€“silica interpenetrated networks: dynamics of confined ionic liquid with lithium salt. Physical Chemistry Chemical Physics, 2015, 17, 29707-29713.	2.8	29
41	Synthesis and Characterization of New Stable Î±,Ï‰-Organo(bis-silanetriols). Organometallics, 2002, 21, 1560-1564.	2.3	28
42	Ionic and electronic conductivities in carbon nanotubes â€“ ionogel solid device. Journal of Materials Chemistry, 2011, 21, 2508-2511.	6.7	26
43	Silica nanofibers as a new drug delivery system: a study of the proteinâ€“silica interactions. Journal of Materials Chemistry B, 2017, 5, 2908-2920.	5.8	25
44	Editorsâ€™ Choiceâ€”Understanding the Superior Cycling Performance of Si Anode in Highly Concentrated Phosphonium-Based Ionic Liquid Electrolyte. Journal of the Electrochemical Society, 2020, 167, 120520.	2.9	23
45	Glycidyl alkoxysilane reactivities towards simple nucleophiles in organic media for improved molecular structure definition in hybrid materials. RSC Advances, 2016, 6, 74087-74099.	3.6	22
46	Bimodal porous silica monoliths obtained by phase separation in non-aqueous media. Journal of Materials Chemistry, 2010, 20, 964-971.	6.7	21
47	Tuning the Formation and Structure of the Silicon Electrode/Ionic Liquid Electrolyte Interphase in Superconcentrated Ionic Liquids. ACS Applied Materials & Interfaces, 2021, 13, 28281-28294.	8.0	21
48	Synthesis and Solid-State NMR Studies of P-Vinylbenzylphosphonic Acid. Chemistry - A European Journal, 2003, 9, 770-775.	3.3	20
49	Multiscale dynamics of 1H and 19F in confined ionogels for lithium batteries. Comptes Rendus Chimie, 2010, 13, 409-411.	0.5	20
50	Reflow Soldering-Resistant Solid-State 3D Micro-Supercapacitors Based on Ionogel Electrolyte for Powering the Internet of Things. Journal of the Electrochemical Society, 2020, 167, 100551.	2.9	20
51	Curdlanâ€“Chitosan Electrospun Fibers as Potential Scaffolds for Bone Regeneration. Polymers, 2021, 13, 526.	4.5	19
52	Novel aluminium phenyl, benzyl, and bromobenzylphosphonates: structural characterisation and hydrationâ€“dehydration reactions. Journal of Materials Chemistry, 2000, 10, 1593-1601.	6.7	17
53	A Direct Sulfation Process of a Marine Polysaccharide in Ionic Liquid. BioMed Research International, 2015, 2015, 1-9.	1.9	16
54	Charge storage mechanism of Î±-MnO2 in protic and aprotic ionic liquid electrolytes. Journal of Power Sources, 2020, 460, 228111.	7.8	16

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55	Structural and magnetic studies of the [Mn12O12(CH3COO)16(H2O)4]Â·2CH3COOHÂ·4H2O thermal derivatives. Journal of Materials Chemistry, 2003, 13, 795-799.	6.7	15
56	Interfacial stability and electrochemical behavior of Li/LiFePO4 batteries using novel soft and weakly adhesive photo-ionogel electrolytes. Journal of Power Sources, 2016, 330, 92-103.	7.8	15
57	Solid-state 3D micro-supercapacitors based on ionogel electrolyte: Influence of adding lithium and sodium salts to the ionic liquid. Energy Storage Materials, 2022, 50, 606-617.	18.0	14
58	Kinetic studies of a composite carbon nanotube-hydrogel for tissue engineering by rheological methods. Journal of Materials Science: Materials in Medicine, 2010, 21, 1163-1168.	3.6	13
59	Water dynamics in silanized hydroxypropyl methylcellulose based hydrogels designed for tissue engineering. Carbohydrate Polymers, 2018, 202, 404-408.	10.2	13
60	Novel structural arrangement for divalent metal phosphonates: synthesis of tert-butylphosphonates and structure of Co[(CH3)3CPO3]Â·H2O. Journal of Materials Chemistry, 1994, 4, 1319-1323.	6.7	12
61	27Al MAS NMR and XAS cross-study of the aluminophosphonate Al(OH)(O3PC6H5)Electronic supplementary information (ESI) available: X-ray powder diffraction pattern of Al(OH)(O3PC6H5). See http://www.rsc.org/suppdata/nj/b1/b106545a/. New Journal of Chemistry, 2001, 25, 1365-1367.	2.8	12
62	Electroactive poly zinc, cadmium, manganese ferrocenylphenylphosphinates. Journal of Organometallic Chemistry, 2005, 690, 363-370.	1.8	11
63	Ionic Liquids Confined in Silica Ionogels: Structural, Thermal, and Dynamical Behaviors. Entropy, 2017, 19, 140.	2.2	11
64	PEOâ€Silsesquioxane Flexible Membranes: Organicâ€Inorganic Solid Electrolytes with Controlled Homogeneity and Nanostructure. ChemistrySelect, 2017, 2, 2088-2093.	1.5	9
65	Photo-Polymerized Organic Host Network of Ionogels for Lithium Batteries: Effects of Mesh Size and of Ethylene Oxide Content. Journal of the Electrochemical Society, 2018, 165, A3179-A3185.	2.9	9
66	Injectable macromolecule-based calcium phosphate bone substitutes. Materials Advances, 2022, 3, 6125-6141.	5.4	8
67	Redox-active pH-responsive molecules: ferrocenylphosphonic acid, ferrocenylmethylphosphonic acid and 1,1â€²-ferrocenylbisphosphonic acid. Structural determination of FcPO3Na2Â·5H2O. Dalton Transactions, 2005, , 1903.	3.3	6
68	Silica based ionogels: interface effects with aprotic and protic ionic liquids with lithium. Physical Chemistry Chemical Physics, 2020, 22, 24051-24058.	2.8	6
69	Lithium Based Ionogel as Solid State Electrolyte: Dynamics of Confined Ionic Liquid, a Neutron Diffusion Study. ECS Transactions, 2014, 64, 27-31.	0.5	5
70	Nitroxide-Substituted Phenylphosphonic Acid:Â A New Building Block for the Design and Study of Magnetic Layered Materials. Chemistry of Materials, 2000, 12, 264-267.	6.7	4
71	Ferrocenylphosphonic acid: from molecule to electro-active hybrid materials. Comptes Rendus Chimie, 2005, 8, 1237-1242.	0.5	3
72	Natural Rubber-Based Ionogels. Journal of Renewable Materials, 2017, , .	2.2	2

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73	Multiscale Dynamics of Ionic Liquids Confined in Ionogel Membrane for Lithium Batteries. AIP Conference Proceedings, 2011, , .	0.4	1
74	Ionic Transport and Charge Distribution in Miniaturized Electrochemical Energy Storage Devices byModeling Investigation. Journal of the Electrochemical Society, 0, , .	2.9	1
75	Synthesis, Structure and Magnetic Properties of Some New Metal (II) Phosphonates: Layered Fe(C₂H₅PO₃) H₂O and Î±-Cu(C₂H₅PO₃), Tubular Î²-Cu(CH₃PO₃). Materials Science Forum, 1994, 152-153, 365-370.	0.3	0
76	Silica nanocarrier as a sustained delivery system of GDF5 for intervertebral disc regenerative medicine. Osteoarthritis and Cartilage, 2016, 24, S482.	1.3	0
77	The combined use of SEM, EPMA and FIB for the characterization of novel biomaterials for bone regeneration. Microscopy and Microanalysis, 2021, 27, 430-432.	0.4	0