Pei Chen

List of Publications by Year
in descending order

114 papers	3,773 citations	136950 32 h-index	155660 55 g-index
116 all docs	116 docs citations	116 times ranked	3668 citing authors

#	Article	IF	Citations
1	Rhodium nanodendrites catalyzed alkaline methanol oxidation reaction in direct methanol fuel cells. Sustainable Materials and Technologies, 2022, 31, e00379.	3.3	13
2	Porous palladium phosphide nanotubes for formic acid electrooxidation. , 2022, 4, 283-293.		102
3	Rapidly progressive IgA nephropathy: clinicopathological characteristics and outcomes assessed according to the revised definition of the KDIGO 2021 Guideline. Nephrology Dialysis Transplantation, 2022, 37, 2429-2437.	0.7	2
4	Interfacial Engineering Enhances the Electroactivity of Frameâ€Like Concave RhCu Bimetallic Nanocubes for Nitrate Reduction. Advanced Energy Materials, 2022, 12, .	19.5	96
5	Concurrent IgA Nephropathy and Membranous Nephropathy, Is It an Overlap Syndrome?. Frontiers in Immunology, 2022, 13, 846323.	4.8	3
6	Nitrogen-doped graphene aerogel-supported ruthenium nanocrystals for pH-universal hydrogen evolution reaction. Chinese Journal of Catalysis, 2022, 43, 1535-1543.	14.0	111
7	New block poly(ether sulfone) based anion exchange membranes with rigid side-chains and high-density quaternary ammonium groups for fuel cell application. Polymer Chemistry, 2022, 13, 4395-4405.	3.9	7
8	Imidazole-Functionalized Multiquaternary Side-Chain Polyethersulfone Anion-Exchange Membrane for Fuel Cell Applications. ACS Applied Energy Materials, 2022, 5, 10023-10033.	5.1	9
9	Benzoxazole-based nematic liquid crystals containing ethynyl and two lateral fluorine atoms with large birefringence. Liquid Crystals, 2021, 48, 157-167.	2.2	6
10	Quinoxaline-based semi-interpenetrating polymer network of sulfonated poly(arylene ether)s and sulfonated polyimides as proton exchange membranes. Polymer Bulletin, 2021, 78, 4333-4354.	3.3	6
11	Enhanced performance of proton-conducting poly(arylene ether sulfone)s via multiple alkylsulfonated side-chains and block copolymer structures. Journal of Membrane Science, 2021, 621, 118932.	8.2	13
12	Organic double Dâ€“Ï€â€“A sensitizers based on 2,2â€²-(2,2 diphenylethene-1,1-diyl)dithiophene: Ï€-conjugation fragment effect on the photovoltaic properties. Materials Advances, 2021, 2, 6641-6646.	5.4	0
13	PtRu nanocubes as bifunctional electrocatalysts for ammonia electrolysis. Journal of Materials Chemistry A, 2021, 9, 8444-8451.	10.3	39
14	Highly Active Hollow RhCu Nanoboxes toward Ethylene Glycol Electrooxidation. Small, 2021, 17, e2006534.	10.0	48
15	SARS-CoV-2 M ^{pro} inhibitors with antiviral activity in a transgenic mouse model. Science, 2021, 371, 1374-1378.	12.6	324
16	Bifunctional Palladium Hydride Nanodendrite Electrocatalysts for Hydrogen Evolution Integrated with Formate Oxidation. ACS Applied Materials & Interfaces, 2021, 13, 13149-13157.	8.0	39
17	Functionalized Ultrafine Rhodium Nanoparticles on Graphene Aerogels for the Hydrogen Evolution Reaction. ChemElectroChem, 2021, 8, 1759-1765.	3.4	5
18	The effect of benzoxazole unit on the properties of cyclic thiourea functionalized triphenylamine dye sensitizers. Dyes and Pigments, 2021, 187, 109093.	3.7	6

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19	Synthesis and properties of benzoxazole-terminated mesogenic compounds containing tolane with high birefringence and large dielectric anisotropy. Liquid Crystals, 2021, 48, 1978-1991.	2.2	9
20	Effect of Ï€-conjugation units on the liquid crystal and photovoltaic performance of heterocyclic pyridine-based compounds. Liquid Crystals, 2021, 48, 2178-2187.	2.2	10
21	Effect of the Spatial Configuration of Donors on the Photovoltaic Performance of Double Dâ˜Ï€â€“A Organic Dyes. ACS Applied Materials & Interfaces, 2021, 13, 40648-40655.	8.0	13
22	Effect of Extending the Conjugation of Dye Molecules on the Efficiency and Stability of Dye-Sensitized Solar Cells. ACS Omega, 2021, 6, 30069-30077.	3.5	8
23	Carbon nanobowl supported chemically functionalized PtRh nanocrystals: a highly active and methanol tolerant electrocatalyst towards the oxygen reduction reaction. Journal of Materials Chemistry A, 2021, 9, 25621-25628.	10.3	9
24	In situ conversion of iron sulfide (FeS) to iron oxyhydroxide (Î³-FeOOH) on N, S co-doped porous carbon nanosheets: An efficient electrocatalyst for the oxygen reduction reaction and zincâ€“air batteries. Journal of Colloid and Interface Science, 2020, 558, 323-333.	9.4	34
25	Co nanoparticles supported on three-dimensionally N-doped holey graphene aerogels for electrocatalytic oxygen reduction. Journal of Colloid and Interface Science, 2020, 559, 143-151.	9.4	21
26	Benzoxazole-terminated liquid crystals with high birefringence and large dielectric anisotropy. Liquid Crystals, 2020, 47, 1274-1280.	2.2	24
27	Preparation and properties of 1-methyl-1H-benzimidazole-based mesogenic compounds incorporating ethynyl moiety. Liquid Crystals, 2020, 47, 1281-1290.	2.2	7
28	Crosslinked poly(arylene ether sulfone) block copolymers containing quinoxaline crosslinkage and pendant butanesulfonic acid groups as proton exchange membranes. International Journal of Hydrogen Energy, 2020, 45, 25262-25275.	7.1	11
29	Rhodium phosphide ultrathin nanosheets for hydrazine oxidation boosted electrochemical water splitting. Applied Catalysis B: Environmental, 2020, 270, 118880.	20.2	151
30	Porous Pdâ€PdO Nanotubes for Methanol Electrooxidation. Advanced Functional Materials, 2020, 30, 2000534.	14.9	138
31	Iridium Nanotubes as Bifunctional Electrocatalysts for Oxygen Evolution and Nitrate Reduction Reactions. ACS Applied Materials & Interfaces, 2020, 12, 14064-14070.	8.0	91
32	Synthesis and properties of benzoxazole-based liquid crystals containing ethynyl group. Liquid Crystals, 2020, 47, 1719-1728.	2.2	6
33	Hydrogen generation from ammonia electrolysis on bifunctional platinum nanocubes electrocatalysts. Journal of Energy Chemistry, 2020, 47, 234-240.	12.9	80
34	Improved mesomorphic behaviour and large birefringence of fluorinated liquid crystals containing ethynyl and 1-methyl-1H-benzimidazole moieties. Liquid Crystals, 2020, 47, 1264-1273.	2.2	9
35	N,F-Codoped Carbon Nanocages: An Efficient Electrocatalyst for Hydrogen Peroxide Electroproduction in Alkaline and Acidic Solutions. ACS Sustainable Chemistry and Engineering, 2020, 8, 2883-2891.	6.7	72
36	Anodic hydrazine electrooxidation boosted overall water electrolysis by bifunctional porous nickel phosphide nanotubes on nickel foam. Nanoscale, 2020, 12, 11526-11535.	5.6	37

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37	Metal-organic interface engineering for boosting the electroactivity of Pt nanodendrites for hydrogen production. Journal of Energy Chemistry, 2020, 51, 105-112.	12.9	49
38	Mesomorphic properties improved via lateral fluorine substituent on benzoxazole-terminated mesogenic compounds. Liquid Crystals, 2020, 47, 1555-1568.	2.2	6
39	Preparation and mesomorphic properties of 1-methyl-1H-benzimidazole-based compounds. Liquid Crystals, 2019, 46, 131-137.	2.2	5
40	Synthesis and mesomorphic properties of benzoxazole derivatives with lateral multifluoro substituents. Liquid Crystals, 2019, 46, 59-66.	2.2	17
41	Glycerol oxidation assisted electrocatalytic nitrogen reduction: ammonia and glyceraldehyde co-production on bimetallic RhCu ultrathin nanoflake nanoaggregates. Journal of Materials Chemistry A, 2019, 7, 21149-21156.	10.3	77
42	0.2 V Electrolysis Voltage-Driven Alkaline Hydrogen Production with Nitrogen-Doped Carbon Nanobowl-Supported Ultrafine Rh Nanoparticles of 1.4 nm. ACS Applied Materials & Interfaces, 2019, 11, 35039-35049.	8.0	27
43	Rh nanoroses for isopropanol oxidation reaction. Applied Catalysis B: Environmental, 2019, 259, 118082.	20.2	44
44	Atomically ultrathin RhCo alloy nanosheet aggregates for efficient water electrolysis in broad pH range. Journal of Materials Chemistry A, 2019, 7, 16437-16446.	10.3	136
45	Facile synthesis of porous PdCu nanoboxes for efficient chromium(<scp>vi</scp>) reduction. CrystEngComm, 2019, 21, 3654-3659.	2.6	23
46	Grapheneâ€Encapsulated Co₉S₈ Nanoparticles on N,Sâ€Codoped Carbon Nanotubes: An Efficient Bifunctional Oxygen Electrocatalyst. ChemSusChem, 2019, 12, 3390-3400.	6.8	43
47	Self-template synthesis of defect-rich NiO nanotubes as efficient electrocatalysts for methanol oxidation reaction. Nanoscale, 2019, 11, 19783-19790.	5.6	50
48	High-frame-rate liquid crystal phase modulator for augmented reality displays. Liquid Crystals, 2019, 46, 309-315.	2.2	18
49	Effect of the thieno[3,4-c]pyrrole-4,6-dione on properties of the cyclic thiourea triphenylamine sensitizers. Dyes and Pigments, 2019, 161, 197-204.	3.7	2
50	Interface self-assembly preparation of multi-element doped carbon nanobowls with high electrocatalysis activity for oxygen reduction reaction. Journal of Colloid and Interface Science, 2019, 533, 569-577.	9.4	8
51	Optimization of the Steam Explosion Pretreatment Effect on Total Flavonoids Content and Antioxidative Activity of Seabuckthom Pomace by Response Surface Methodology. Molecules, 2019, 24, 60.	3.8	13
52	Synthesis and study the liquid crystalline properties of compounds containing benzoxazole core and terminal vinyl group. Liquid Crystals, 2019, 46, 797-805.	2.2	15
53	Effects of Heat Treatment on the Structural Characteristics and Antitumor Activity of Polysaccharides from Grifola frondosa. Applied Biochemistry and Biotechnology, 2019, 188, 481-490.	2.9	24
54	Synthesis and mesomorphic properties of the nematic mesophase benzoxazole derivatives with big twist angle of difluoro-biphenyl unit. Liquid Crystals, 2019, 46, 1013-1023.	2.2	15

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55	Syntheses of new diluents for medium birefringence liquid crystals materials. Liquid Crystals, 2019, 46, 700-707.	2.2	5
56	Block poly(arylene ether sulfone) copolymers tethering aromatic side-chain quaternary ammonium as anion exchange membranes. Polymer Chemistry, 2018, 9, 699-711.	3.9	46
57	N-doped carbon nanocages: Bifunctional electrocatalysts for the oxygen reduction and evolution reactions. Nano Research, 2018, 11, 1905-1916.	10.4	73
58	The effect of intermolecular actions on the nematic phase range of tolane-liquid crystals. Liquid Crystals, 2018, 45, 783-792.	2.2	12
59	Purification, Preliminary Structure and Antitumor Activity of Exopolysaccharide Produced by Streptococcus thermophilus CH9. Molecules, 2018, 23, 2898.	3.8	31
60	Au Nanowires@Pd-Polyethylenimine Nanohybrids as Highly Active and Methanol-Tolerant Electrocatalysts toward Oxygen Reduction Reaction in Alkaline Media. ACS Catalysis, 2018, 8, 11287-11295.	11.2	129
61	The effect of phenyl ring on the physical properties of liquid crystals containing 4-pyridyl terminal group. Liquid Crystals, 2018, 45, 1825-1833.	2.2	12
62	Reduced graphene oxide supported PdNi alloy nanocrystals for the oxygen reduction and methanol oxidation reactions. Green Energy and Environment, 2018, 3, 375-383.	8.7	24
63	Porous Trimetallic PtRhCu Cubic Nanoboxes for Ethanol Electrooxidation. Advanced Energy Materials, 2018, 8, 1801326.	19.5	240
64	3D nitrogen-doped graphene aerogels as efficient electrocatalyst for the oxygen reduction reaction. Carbon, 2018, 139, 137-144.	10.3	75
65	Investigation of 4-pyridyl liquid crystals on the photovoltaic performance and stability of dye sensitized solar cells by the co-sensitization. Dyes and Pigments, 2018, 159, 527-532.	3.7	13
66	Fe/N Codoped Carbon Nanocages with Single-Atom Feature as Efficient Oxygen Reduction Reaction Electrocatalyst. ACS Applied Energy Materials, 2018, 1, 4982-4990.	5.1	38
67	Carbon nanobowls supported ultrafine iridium nanocrystals: An active and stable electrocatalyst for the oxygen evolution reaction in acidic media. Journal of Colloid and Interface Science, 2018, 529, 325-331.	9.4	21
68	Physical, Chemical Properties and Structural Changes of Zaodan Pickled by Vacuum Decompression Technology. Korean Journal for Food Science of Animal Resources, 2018, 38, 291-301.	1.5	1
69	The effect of furan linkers on the properties of cyclic thiourea functionalized triphenylamine dye sensitizers. Dyes and Pigments, 2017, 139, 772-778.	3.7	13
70	Carbon nanobowls supported ultrafine palladium nanocrystals: A highly active electrocatalyst for the formic acid oxidation. International Journal of Hydrogen Energy, 2017, 42, 8255-8263.	7.1	15
71	Lateral substituent effects on UV stability of high-birefringence liquid crystals with the diaryl-diacetylene core: DFT/TD-DFT study. Liquid Crystals, 2017, 44, 1515-1524.	2.2	56
72	Cross-linked poly(arylene ether sulfone)s with side-chain aromatic benzyltrimethyl ammonium for anion-exchange membranes. Polymer Bulletin, 2017, 74, 4329-4348.	3.3	3

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73	Facile synthesis and the properties of novel cardo poly(arylene ether sulfone)s with pendent cycloaminium side chains as anion exchange membranes. Polymer Chemistry, 2017, 8, 4207-4219.	3.9	45
74	Poly(arylene ether sulfone) bearing multiple benzyl-type quaternary ammonium pendants: preparation, stability and conductivity. RSC Advances, 2017, 7, 30770-30783.	3.6	8
75	Preparation and characterisation of laterally monofluorinated mesogenic benzimidazole-based compounds. Liquid Crystals, 2017, 44, 1678-1685.	2.2	15
76	Preparation and properties of laterally multifluorinated benzoxazole-based nematic mesogens. Liquid Crystals, 2017, 44, 1686-1694.	2.2	12
77	Synthesis and properties of allyloxy-based tolane liquid crystals with high negative dielectric anisotropy. Liquid Crystals, 2017, 44, 2184-2191.	2.2	23
78	High electrocapacitive performance of bowl-like monodispersed porous carbon nanoparticles prepared with an interfacial self-assembly process. Journal of Colloid and Interface Science, 2017, 496, 35-43.	9.4	18
79	Study on dye-loading mode on TiO2 films and impact of co-sensitizers on highly efficient co-sensitized solar cells. Journal of Materials Science: Materials in Electronics, 2017, 28, 3962-3969.	2.2	7
80	Nematic mesophase enhanced via lateral monofluorine substitution on benzoxazole-liquid crystals. Liquid Crystals, 2016, 43, 1341-1350.	2.2	24
81	Facile preparation of TiO2 nanocrystals inserted in monodispersed mesoporous SiO2 nanospheres for enhanced photocatalytic activity. Journal of Materials Science: Materials in Electronics, 2016, 27, 13161-13170.	2.2	4
82	Improving UV stability of tolane-liquid crystals in photonic applications by the ortho fluorine substitution. Optical Materials Express, 2016, 6, 97.	3.0	33
83	Spinel MnCo2O4 nanoparticles cross-linked with two-dimensional porous carbon nanosheets as a high-efficiency oxygen reduction electrocatalyst. Nano Research, 2016, 9, 2110-2122.	10.4	57
84	Improved nematic mesophase stability of benzoxazole-liquid crystals via modification of inter-ring twist angle of biphenyl unit. Liquid Crystals, 2016, 43, 1397-1407.	2.2	36
85	Synthesis and physical properties of tolane liquid crystals containing 2,3-difluorophenylene and terminated by a tetrahydropyran moiety. Liquid Crystals, 2016, 43, 564-572.	2.2	18
86	Cyclic thiourea functionalized dyes with binary Ï€-linkers: Influence of different Ï€-conjugation segments on the performance of dye-sensitized solar cells. Dyes and Pigments, 2015, 116, 146-154.	3.7	25
87	Synthesis and evaluation of simple molecule as a co-adsorbent dye for highly efficient co-sensitized solar cells. Dyes and Pigments, 2015, 120, 85-92.	3.7	16
88	Synthesis and Characterization of Mesogenic Compounds Possessing Bithiophene and Benzoxazole Units. Molecular Crystals and Liquid Crystals, 2015, 608, 25-37.	0.9	2
89	Dielectric and optical anisotropy enhanced by 1,3-dioxolane terminal substitution on tolane-liquid crystals. Journal of Materials Chemistry C, 2015, 3, 8706-8711.	5.5	48
90	Synthesis and characterisation of benzoxazole-based liquid crystals possessing 3,5-difluorophenyl unit. Liquid Crystals, 2014, 41, 1455-1464.	2.2	20

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91	Synthesis and properties of mesogenic laterally fluorinated compounds containing benzoxazole unit. Liquid Crystals, 2014, 41, 1042-1056.	2.2	18
92	Approach to tune short-circuit current and open-circuit voltage of dye-sensitized solar cells: Ï€-linker modification and photoanode selection. RSC Advances, 2014, 4, 42252-42259.	3.6	26
93	Oneâ€Pot Microwaveâ€Assisted Synthesis of Benzopyrano[2,3â€c]pyrazolâ€3â€one Derivatives. Journal of Heterocyclic Chemistry, 2014, 51, 1210-1214.	2.6	2
94	New Mesogenic Compounds Containing a Terminal-Substituted Benzoxazole Unit. Molecular Crystals and Liquid Crystals, 2014, 592, 44-62.	0.9	8
95	Highly Efficient Dyeâ€sensitized Solar Cells by Coâ€sensitization of Organic Dyes and Coâ€adsorbent Chenodeoxycholic Acid. Chinese Journal of Chemistry, 2014, 32, 474-478.	4.9	10
96	Synthesis and properties of substituted benzoxazole-terminated liquid crystals. Liquid Crystals, 2013, 40, 197-215.	2.2	33
97	Cyclic Thiourea/Urea Functionalized Triphenylamine-Based Dyes for High-Performance Dye-Sensitized Solar Cells. Organic Letters, 2013, 15, 1456-1459.	4.6	55
98	Synthesis and mesomorphic properties of 2-(4â€²-alkoxybiphenyl-4-yl)-1H-benzimidazole derivatives. Liquid Crystals, 2013, 40, 396-410.	2.2	24
99	Synthesis and mesomorphic properties of but-3-enyl-based fluorinated biphenyl liquid crystals. Liquid Crystals, 2012, 39, 457-465.	2.2	23
100	Synthesis, mesomorphic and gelation properties of 7-alkoxycoumarin-3-carbonyl hydrazine. Liquid Crystals, 2012, 39, 1393-1401.	2.2	19
101	Synthesis and properties of allyloxy-based biphenyl liquid crystals with multiple lateral fluoro substituents. Liquid Crystals, 2012, 39, 957-963.	2.2	11
102	Covalentâ€ionically crosslinked sulfonated poly(arylene ether sulfone)s bearing quinoxaline crosslinkages as proton exchange membranes. Journal of Applied Polymer Science, 2012, 124, E278.	2.6	8
103	Covalently and ionically crosslinked sulfonated poly(arylene ether ketone)s as proton exchange membranes. Polymer Bulletin, 2012, 68, 1369-1386.	3.3	12
104	Quinoxaline-based crosslinked membranes of sulfonated poly(arylene ether sulfone)s for fuel cell applications. International Journal of Hydrogen Energy, 2011, 36, 12406-12416.	7.1	26
105	Crosslinked sulfonated poly(arylene ether ketone) membranes bearing quinoxaline and acidâ€“base complex cross-linkages for fuel cell applications. Journal of Power Sources, 2011, 196, 1694-1703.	7.8	41
106	Effects of tetracarboxylic dianhydrides on the properties of sulfonated polyimides. Journal of Polymer Science Part A, 2010, 48, 905-915.	2.3	35
107	Synthesis and mesomorphic properties of 7-alkoxybezopyrano[2,3-c]pyrazol-3-one. Liquid Crystals, 2010, 37, 1549-1557.	2.2	24
108	Pervaporation Separation and Catalysis Activity of Novel Zirconium Silicaliteâ€1 Zeolite Membrane. Chinese Journal of Chemistry, 2009, 27, 1692-1696.	4.9	4

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109	Synthesis and properties of sulfonated poly(siloxane imide)s bearing dimethyl siloxane oligomers for fuel cell applications. Journal of Applied Polymer Science, 2009, 112, 3560-3568.	2.6	2
110	Synthesis and properties of novel side-chain-type sulfonated polyimides. Polymer Bulletin, 2009, 63, 1-14.	3.3	30
111	Synthesis and the effect of 2,3-difluoro substitution on the properties of diarylacetylene terminated by an allyloxy group. Liquid Crystals, 0, , 1-10.	2.2	3
112	Improved mesophase stability of benzoxazole derivatives via dipole moment modification. Liquid Crystals, 0, , 1-11.	2.2	4
113	Preparation and properties of lateral monofluoro-substituted benzoxazole-based mesogenic compounds. Liquid Crystals, 0, , 1-9.	2.2	2
114	Efficient Bifunctional Oxygen Electrocatalysts for Rechargeable Zincâ€“Air Battery: Fe 3 O 4 /Nâ^'C Nanoflowers Derived from Aromatic Polyamide. ChemCatChem, 0, , .	3.7	4