

Pei Chen

List of Publications by Year in descending order

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114
papers

3,773
citations

136950

32
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155660

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116
all docs

116
docs citations

116
times ranked

3668
citing authors

#	ARTICLE	IF	CITATIONS
1	SARS-CoV-2 M ^{pro} inhibitors with antiviral activity in a transgenic mouse model. <i>Science</i> , 2021, 371, 1374-1378.	12.6	324
2	Porous Trimetallic PtRhCu Cubic Nanoboxes for Ethanol Electrooxidation. <i>Advanced Energy Materials</i> , 2018, 8, 1801326.	19.5	240
3	Rhodium phosphide ultrathin nanosheets for hydrazine oxidation boosted electrochemical water splitting. <i>Applied Catalysis B: Environmental</i> , 2020, 270, 118880.	20.2	151
4	Porous Pd@PdO Nanotubes for Methanol Electrooxidation. <i>Advanced Functional Materials</i> , 2020, 30, 2000534.	14.9	138
5	Atomically ultrathin RhCo alloy nanosheet aggregates for efficient water electrolysis in broad pH range. <i>Journal of Materials Chemistry A</i> , 2019, 7, 16437-16446.	10.3	136
6	Au Nanowires@Pd-Polyethylenimine Nanohybrids as Highly Active and Methanol-Tolerant Electrocatalysts toward Oxygen Reduction Reaction in Alkaline Media. <i>ACS Catalysis</i> , 2018, 8, 11287-11295.	11.2	129
7	Nitrogen-doped graphene aerogel-supported ruthenium nanocrystals for pH-universal hydrogen evolution reaction. <i>Chinese Journal of Catalysis</i> , 2022, 43, 1535-1543.	14.0	111
8	Porous palladium phosphide nanotubes for formic acid electrooxidation. , 2022, 4, 283-293.		102
9	Interfacial Engineering Enhances the Electroactivity of Frame-Like Concave RhCu Bimetallic Nanocubes for Nitrate Reduction. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	96
10	Iridium Nanotubes as Bifunctional Electrocatalysts for Oxygen Evolution and Nitrate Reduction Reactions. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 14064-14070.	8.0	91
11	Hydrogen generation from ammonia electrolysis on bifunctional platinum nanocubes electrocatalysts. <i>Journal of Energy Chemistry</i> , 2020, 47, 234-240.	12.9	80
12	Glycerol oxidation assisted electrocatalytic nitrogen reduction: ammonia and glyceraldehyde co-production on bimetallic RhCu ultrathin nanoflake nanoaggregates. <i>Journal of Materials Chemistry A</i> , 2019, 7, 21149-21156.	10.3	77
13	3D nitrogen-doped graphene aerogels as efficient electrocatalyst for the oxygen reduction reaction. <i>Carbon</i> , 2018, 139, 137-144.	10.3	75
14	N-doped carbon nanocages: Bifunctional electrocatalysts for the oxygen reduction and evolution reactions. <i>Nano Research</i> , 2018, 11, 1905-1916.	10.4	73
15	N,F-Codoped Carbon Nanocages: An Efficient Electrocatalyst for Hydrogen Peroxide Electroproduction in Alkaline and Acidic Solutions. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 2883-2891.	6.7	72
16	Spinel MnCo ₂ O ₄ nanoparticles cross-linked with two-dimensional porous carbon nanosheets as a high-efficiency oxygen reduction electrocatalyst. <i>Nano Research</i> , 2016, 9, 2110-2122.	10.4	57
17	Lateral substituent effects on UV stability of high-birefringence liquid crystals with the diaryl-diacetylene core: DFT/TD-DFT study. <i>Liquid Crystals</i> , 2017, 44, 1515-1524.	2.2	56
18	Cyclic Thiourea/Urea Functionalized Triphenylamine-Based Dyes for High-Performance Dye-Sensitized Solar Cells. <i>Organic Letters</i> , 2013, 15, 1456-1459.	4.6	55

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19	Self-template synthesis of defect-rich NiO nanotubes as efficient electrocatalysts for methanol oxidation reaction. <i>Nanoscale</i> , 2019, 11, 19783-19790.	5.6	50
20	Metal-organic interface engineering for boosting the electroactivity of Pt nanodendrites for hydrogen production. <i>Journal of Energy Chemistry</i> , 2020, 51, 105-112.	12.9	49
21	Dielectric and optical anisotropy enhanced by 1,3-dioxolane terminal substitution on tolane-liquid crystals. <i>Journal of Materials Chemistry C</i> , 2015, 3, 8706-8711.	5.5	48
22	Highly Active Hollow RhCu Nanoboxes toward Ethylene Glycol Electrooxidation. <i>Small</i> , 2021, 17, e2006534.	10.0	48
23	Block poly(arylene ether sulfone) copolymers tethering aromatic side-chain quaternary ammonium as anion exchange membranes. <i>Polymer Chemistry</i> , 2018, 9, 699-711.	3.9	46
24	Facile synthesis and the properties of novel cardo poly(arylene ether sulfone)s with pendent cycloaminium side chains as anion exchange membranes. <i>Polymer Chemistry</i> , 2017, 8, 4207-4219.	3.9	45
25	Rh nanoroses for isopropanol oxidation reaction. <i>Applied Catalysis B: Environmental</i> , 2019, 259, 118082.	20.2	44
26	Graphene-Encapsulated Co ₉ S ₈ Nanoparticles on N,S-Codoped Carbon Nanotubes: An Efficient Bifunctional Oxygen Electrocatalyst. <i>ChemSusChem</i> , 2019, 12, 3390-3400.	6.8	43
27	Crosslinked sulfonated poly(arylene ether ketone) membranes bearing quinoxaline and acid-base complex cross-linkages for fuel cell applications. <i>Journal of Power Sources</i> , 2011, 196, 1694-1703.	7.8	41
28	PtRu nanocubes as bifunctional electrocatalysts for ammonia electrolysis. <i>Journal of Materials Chemistry A</i> , 2021, 9, 8444-8451.	10.3	39
29	Bifunctional Palladium Hydride Nanodendrite Electrocatalysts for Hydrogen Evolution Integrated with Formate Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 13149-13157.	8.0	39
30	Fe/N Codoped Carbon Nanocages with Single-Atom Feature as Efficient Oxygen Reduction Reaction Electrocatalyst. <i>ACS Applied Energy Materials</i> , 2018, 1, 4982-4990.	5.1	38
31	Anodic hydrazine electrooxidation boosted overall water electrolysis by bifunctional porous nickel phosphide nanotubes on nickel foam. <i>Nanoscale</i> , 2020, 12, 11526-11535.	5.6	37
32	Improved nematic mesophase stability of benzoxazole-liquid crystals via modification of inter-ring twist angle of biphenyl unit. <i>Liquid Crystals</i> , 2016, 43, 1397-1407.	2.2	36
33	Effects of tetracarboxylic dianhydrides on the properties of sulfonated polyimides. <i>Journal of Polymer Science Part A</i> , 2010, 48, 905-915.	2.3	35
34	In situ conversion of iron sulfide (FeS) to iron oxyhydroxide (Î ³ -FeOOH) on N, S co-doped porous carbon nanosheets: An efficient electrocatalyst for the oxygen reduction reaction and zinc-air batteries. <i>Journal of Colloid and Interface Science</i> , 2020, 558, 323-333.	9.4	34
35	Synthesis and properties of substituted benzoxazole-terminated liquid crystals. <i>Liquid Crystals</i> , 2013, 40, 197-215.	2.2	33
36	Improving UV stability of tolane-liquid crystals in photonic applications by the ortho fluorine substitution. <i>Optical Materials Express</i> , 2016, 6, 97.	3.0	33

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37	Purification, Preliminary Structure and Antitumor Activity of Exopolysaccharide Produced by <i>Streptococcus thermophilus</i> CH9. <i>Molecules</i> , 2018, 23, 2898.	3.8	31
38	Synthesis and properties of novel side-chain-type sulfonated polyimides. <i>Polymer Bulletin</i> , 2009, 63, 1-14.	3.3	30
39	0.2 V Electrolysis Voltage-Driven Alkaline Hydrogen Production with Nitrogen-Doped Carbon Nanobowl-Supported Ultrafine Rh Nanoparticles of 1.4 nm. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 35039-35049.	8.0	27
40	Quinoxaline-based crosslinked membranes of sulfonated poly(arylene ether sulfone)s for fuel cell applications. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 12406-12416.	7.1	26
41	Approach to tune short-circuit current and open-circuit voltage of dye-sensitized solar cells: π -linker modification and photoanode selection. <i>RSC Advances</i> , 2014, 4, 42252-42259.	3.6	26
42	Cyclic thiourea functionalized dyes with binary π -linkers: Influence of different π -conjugation segments on the performance of dye-sensitized solar cells. <i>Dyes and Pigments</i> , 2015, 116, 146-154.	3.7	25
43	Synthesis and mesomorphic properties of 7-alkoxybezopyrano[2,3-c]pyrazol-3-one. <i>Liquid Crystals</i> , 2010, 37, 1549-1557.	2.2	24
44	Synthesis and mesomorphic properties of 2-(4-alkoxybiphenyl-4-yl)-1H-benzimidazole derivatives. <i>Liquid Crystals</i> , 2013, 40, 396-410.	2.2	24
45	Nematic mesophase enhanced via lateral monofluorine substitution on benzoxazole-liquid crystals. <i>Liquid Crystals</i> , 2016, 43, 1341-1350.	2.2	24
46	Reduced graphene oxide supported PdNi alloy nanocrystals for the oxygen reduction and methanol oxidation reactions. <i>Green Energy and Environment</i> , 2018, 3, 375-383.	8.7	24
47	Effects of Heat Treatment on the Structural Characteristics and Antitumor Activity of Polysaccharides from <i>Grifola frondosa</i> . <i>Applied Biochemistry and Biotechnology</i> , 2019, 188, 481-490.	2.9	24
48	Benzoxazole-terminated liquid crystals with high birefringence and large dielectric anisotropy. <i>Liquid Crystals</i> , 2020, 47, 1274-1280.	2.2	24
49	Synthesis and mesomorphic properties of but-3-enyl-based fluorinated biphenyl liquid crystals. <i>Liquid Crystals</i> , 2012, 39, 457-465.	2.2	23
50	Synthesis and properties of allyloxy-based tolane liquid crystals with high negative dielectric anisotropy. <i>Liquid Crystals</i> , 2017, 44, 2184-2191.	2.2	23
51	Facile synthesis of porous PdCu nanoboxes for efficient chromium(VI) reduction. <i>CrystEngComm</i> , 2019, 21, 3654-3659.	2.6	23
52	Carbon nanobowls supported ultrafine iridium nanocrystals: An active and stable electrocatalyst for the oxygen evolution reaction in acidic media. <i>Journal of Colloid and Interface Science</i> , 2018, 529, 325-331.	9.4	21
53	Co nanoparticles supported on three-dimensionally N-doped holey graphene aerogels for electrocatalytic oxygen reduction. <i>Journal of Colloid and Interface Science</i> , 2020, 559, 143-151.	9.4	21
54	Synthesis and characterisation of benzoxazole-based liquid crystals possessing 3,5-difluorophenyl unit. <i>Liquid Crystals</i> , 2014, 41, 1455-1464.	2.2	20

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55	Synthesis, mesomorphic and gelation properties of 7-alkoxycoumarin-3-carbonyl hydrazine. <i>Liquid Crystals</i> , 2012, 39, 1393-1401.	2.2	19
56	Synthesis and properties of mesogenic laterally fluorinated compounds containing benzoxazole unit. <i>Liquid Crystals</i> , 2014, 41, 1042-1056.	2.2	18
57	Synthesis and physical properties of tolane liquid crystals containing 2,3-difluorophenylene and terminated by a tetrahydropyran moiety. <i>Liquid Crystals</i> , 2016, 43, 564-572.	2.2	18
58	High electrocapacitive performance of bowl-like monodispersed porous carbon nanoparticles prepared with an interfacial self-assembly process. <i>Journal of Colloid and Interface Science</i> , 2017, 496, 35-43.	9.4	18
59	High-frame-rate liquid crystal phase modulator for augmented reality displays. <i>Liquid Crystals</i> , 2019, 46, 309-315.	2.2	18
60	Synthesis and mesomorphic properties of benzoxazole derivatives with lateral multifluoro substituents. <i>Liquid Crystals</i> , 2019, 46, 59-66.	2.2	17
61	Synthesis and evaluation of simple molecule as a co-adsorbent dye for highly efficient co-sensitized solar cells. <i>Dyes and Pigments</i> , 2015, 120, 85-92.	3.7	16
62	Carbon nanobowls supported ultrafine palladium nanocrystals: A highly active electrocatalyst for the formic acid oxidation. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 8255-8263.	7.1	15
63	Preparation and characterisation of laterally monofluorinated mesogenic benzimidazole-based compounds. <i>Liquid Crystals</i> , 2017, 44, 1678-1685.	2.2	15
64	Synthesis and study the liquid crystalline properties of compounds containing benzoxazole core and terminal vinyl group. <i>Liquid Crystals</i> , 2019, 46, 797-805.	2.2	15
65	Synthesis and mesomorphic properties of the nematic mesophase benzoxazole derivatives with big twist angle of difluoro-biphenyl unit. <i>Liquid Crystals</i> , 2019, 46, 1013-1023.	2.2	15
66	The effect of furan linkers on the properties of cyclic thiourea functionalized triphenylamine dye sensitizers. <i>Dyes and Pigments</i> , 2017, 139, 772-778.	3.7	13
67	Investigation of 4-pyridyl liquid crystals on the photovoltaic performance and stability of dye sensitized solar cells by the co-sensitization. <i>Dyes and Pigments</i> , 2018, 159, 527-532.	3.7	13
68	Optimization of the Steam Explosion Pretreatment Effect on Total Flavonoids Content and Antioxidative Activity of Seabuckthorn Pomace by Response Surface Methodology. <i>Molecules</i> , 2019, 24, 60.	3.8	13
69	Enhanced performance of proton-conducting poly(arylene ether sulfone)s via multiple alkylsulfonated side-chains and block copolymer structures. <i>Journal of Membrane Science</i> , 2021, 621, 118932.	8.2	13
70	Effect of the Spatial Configuration of Donors on the Photovoltaic Performance of Double Donor-Acceptor Organic Dyes. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 40648-40655.	8.0	13
71	Rhodium nanodendrites catalyzed alkaline methanol oxidation reaction in direct methanol fuel cells. <i>Sustainable Materials and Technologies</i> , 2022, 31, e00379.	3.3	13
72	Covalently and ionically crosslinked sulfonated poly(arylene ether ketone)s as proton exchange membranes. <i>Polymer Bulletin</i> , 2012, 68, 1369-1386.	3.3	12

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73	Preparation and properties of laterally multifluorinated benzoxazole-based nematic mesogens. <i>Liquid Crystals</i> , 2017, 44, 1686-1694.	2.2	12
74	The effect of intermolecular actions on the nematic phase range of tolane-liquid crystals. <i>Liquid Crystals</i> , 2018, 45, 783-792.	2.2	12
75	The effect of phenyl ring on the physical properties of liquid crystals containing 4-pyridyl terminal group. <i>Liquid Crystals</i> , 2018, 45, 1825-1833.	2.2	12
76	Synthesis and properties of allyloxy-based biphenyl liquid crystals with multiple lateral fluoro substituents. <i>Liquid Crystals</i> , 2012, 39, 957-963.	2.2	11
77	Crosslinked poly(arylene ether sulfone) block copolymers containing quinoxaline crosslinkage and pendant butanesulfonic acid groups as proton exchange membranes. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 25262-25275.	7.1	11
78	Highly Efficient Dye-Sensitized Solar Cells by Co-Sensitization of Organic Dyes and Co-Absorbent Chenodeoxycholic Acid. <i>Chinese Journal of Chemistry</i> , 2014, 32, 474-478.	4.9	10
79	Effect of π -conjugation units on the liquid crystal and photovoltaic performance of heterocyclic pyridine-based compounds. <i>Liquid Crystals</i> , 2021, 48, 2178-2187.	2.2	10
80	Improved mesomorphic behaviour and large birefringence of fluorinated liquid crystals containing ethynyl and 1-methyl-1H-benzimidazole moieties. <i>Liquid Crystals</i> , 2020, 47, 1264-1273.	2.2	9
81	Synthesis and properties of benzoxazole-terminated mesogenic compounds containing tolane with high birefringence and large dielectric anisotropy. <i>Liquid Crystals</i> , 2021, 48, 1978-1991.	2.2	9
82	Carbon nanobowl supported chemically functionalized PtRh nanocrystals: a highly active and methanol tolerant electrocatalyst towards the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2021, 9, 25621-25628.	10.3	9
83	Imidazole-Functionalized Multiquaternary Side-Chain Polyethersulfone Anion-Exchange Membrane for Fuel Cell Applications. <i>ACS Applied Energy Materials</i> , 2022, 5, 10023-10033.	5.1	9
84	Covalently crosslinked sulfonated poly(arylene ether sulfone)s bearing quinoxaline crosslinkages as proton exchange membranes. <i>Journal of Applied Polymer Science</i> , 2012, 124, E278.	2.6	8
85	New Mesogenic Compounds Containing a Terminal-Substituted Benzoxazole Unit. <i>Molecular Crystals and Liquid Crystals</i> , 2014, 592, 44-62.	0.9	8
86	Poly(arylene ether sulfone) bearing multiple benzyl-type quaternary ammonium pendants: preparation, stability and conductivity. <i>RSC Advances</i> , 2017, 7, 30770-30783.	3.6	8
87	Interface self-assembly preparation of multi-element doped carbon nanobowls with high electrocatalysis activity for oxygen reduction reaction. <i>Journal of Colloid and Interface Science</i> , 2019, 533, 569-577.	9.4	8
88	Effect of Extending the Conjugation of Dye Molecules on the Efficiency and Stability of Dye-Sensitized Solar Cells. <i>ACS Omega</i> , 2021, 6, 30069-30077.	3.5	8
89	Study on dye-loading mode on TiO ₂ films and impact of co-sensitizers on highly efficient co-sensitized solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 3962-3969.	2.2	7
90	Preparation and properties of 1-methyl-1H-benzimidazole-based mesogenic compounds incorporating ethynyl moiety. <i>Liquid Crystals</i> , 2020, 47, 1281-1290.	2.2	7

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91	New block poly(ether sulfone) based anion exchange membranes with rigid side-chains and high-density quaternary ammonium groups for fuel cell application. <i>Polymer Chemistry</i> , 2022, 13, 4395-4405.	3.9	7
92	Synthesis and properties of benzoxazole-based liquid crystals containing ethynyl group. <i>Liquid Crystals</i> , 2020, 47, 1719-1728.	2.2	6
93	Mesomorphic properties improved via lateral fluorine substituent on benzoxazole-terminated mesogenic compounds. <i>Liquid Crystals</i> , 2020, 47, 1555-1568.	2.2	6
94	Benzoxazole-based nematic liquid crystals containing ethynyl and two lateral fluorine atoms with large birefringence. <i>Liquid Crystals</i> , 2021, 48, 157-167.	2.2	6
95	Quinoxaline-based semi-interpenetrating polymer network of sulfonated poly(arylene ether)s and sulfonated polyimides as proton exchange membranes. <i>Polymer Bulletin</i> , 2021, 78, 4333-4354.	3.3	6
96	The effect of benzoxazole unit on the properties of cyclic thiourea functionalized triphenylamine dye sensitizers. <i>Dyes and Pigments</i> , 2021, 187, 109093.	3.7	6
97	Preparation and mesomorphic properties of 1-methyl-1H-benzimidazole-based compounds. <i>Liquid Crystals</i> , 2019, 46, 131-137.	2.2	5
98	Syntheses of new diluents for medium birefringence liquid crystals materials. <i>Liquid Crystals</i> , 2019, 46, 700-707.	2.2	5
99	Functionalized Ultrafine Rhodium Nanoparticles on Graphene Aerogels for the Hydrogen Evolution Reaction. <i>ChemElectroChem</i> , 2021, 8, 1759-1765.	3.4	5
100	Pervaporation Separation and Catalysis Activity of Novel Zirconium Silicalite-1 Zeolite Membrane. <i>Chinese Journal of Chemistry</i> , 2009, 27, 1692-1696.	4.9	4
101	Improved mesophase stability of benzoxazole derivatives via dipole moment modification. <i>Liquid Crystals</i> , 0, , 1-11.	2.2	4
102	Facile preparation of TiO ₂ nanocrystals inserted in monodispersed mesoporous SiO ₂ nanospheres for enhanced photocatalytic activity. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 13161-13170.	2.2	4
103	Efficient Bifunctional Oxygen Electrocatalysts for Rechargeable Zinc-Air Battery: Fe ₃ O ₄ /N-C Nanoflowers Derived from Aromatic Polyamide. <i>ChemCatChem</i> , 0, , .	3.7	4
104	Synthesis and the effect of 2,3-difluoro substitution on the properties of diarylacetylene terminated by an allyloxy group. <i>Liquid Crystals</i> , 0, , 1-10.	2.2	3
105	Cross-linked poly(arylene ether sulfone)s with side-chain aromatic benzyltrimethyl ammonium for anion-exchange membranes. <i>Polymer Bulletin</i> , 2017, 74, 4329-4348.	3.3	3
106	Concurrent IgA Nephropathy and Membranous Nephropathy, Is It an Overlap Syndrome?. <i>Frontiers in Immunology</i> , 2022, 13, 846323.	4.8	3
107	Synthesis and properties of sulfonated poly(siloxane imide)s bearing dimethyl siloxane oligomers for fuel cell applications. <i>Journal of Applied Polymer Science</i> , 2009, 112, 3560-3568.	2.6	2
108	One-Pot Microwave-Assisted Synthesis of Benzopyrano[2,3-c]pyrazolone Derivatives. <i>Journal of Heterocyclic Chemistry</i> , 2014, 51, 1210-1214.	2.6	2

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109	Synthesis and Characterization of Mesogenic Compounds Possessing Bithiophene and Benzoxazole Units. <i>Molecular Crystals and Liquid Crystals</i> , 2015, 608, 25-37.	0.9	2
110	Preparation and properties of lateral monofluoro-substituted benzoxazole-based mesogenic compounds. <i>Liquid Crystals</i> , 0, , 1-9.	2.2	2
111	Effect of the thieno[3,4-c]pyrrole-4,6-dione on properties of the cyclic thiourea triphenylamine sensitizers. <i>Dyes and Pigments</i> , 2019, 161, 197-204.	3.7	2
112	Rapidly progressive IgA nephropathy: clinicopathological characteristics and outcomes assessed according to the revised definition of the KDIGO 2021 Guideline. <i>Nephrology Dialysis Transplantation</i> , 2022, 37, 2429-2437.	0.7	2
113	Physical, Chemical Properties and Structural Changes of Zaodan Pickled by Vacuum Decompression Technology. <i>Korean Journal for Food Science of Animal Resources</i> , 2018, 38, 291-301.	1.5	1
114	Organic double Dâ€“iâ€“A sensitizers based on 2,2â€“(2,2 diphenylethene-1,1-diyl)dithiophene: iâ€“conjugation fragment effect on the photovoltaic properties. <i>Materials Advances</i> , 2021, 2, 6641-6646.	5.4	0