

Ai-Hua Yuan

List of Publications by Year in descending order

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105
papers

4,338
citations

109137

35
h-index

118652

62
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105
all docs

105
docs citations

105
times ranked

4554
citing authors

#	ARTICLE	IF	CITATIONS
1	MOF-derived bi-metal embedded N-doped carbon polyhedral nanocages with enhanced lithium storage. <i>Journal of Materials Chemistry A</i> , 2017, 5, 266-274.	5.2	341
2	Facile fabrication of MOF-derived octahedral CuO wrapped 3D graphene network as binder-free anode for high performance lithium-ion batteries. <i>Chemical Engineering Journal</i> , 2017, 313, 1623-1632.	6.6	181
3	Co, Mn-LDH nanoneedle arrays grown on Ni foam for high performance supercapacitors. <i>Applied Surface Science</i> , 2019, 469, 487-494.	3.1	179
4	Facile synthesis of a metal-organic framework-derived Mn ₂ O ₃ nanowire coated three-dimensional graphene network for high-performance free-standing supercapacitor electrodes. <i>Journal of Materials Chemistry A</i> , 2016, 4, 8283-8290.	5.2	167
5	Systematic Study of Effect on Enhancing Specific Capacity and Electrochemical Behaviors of Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1701330.	10.2	154
6	Cyanometallic framework-derived hierarchical Co ₃ O ₄ -NiO/graphene foam as high-performance binder-free electrodes for supercapacitors. <i>Chemical Engineering Journal</i> , 2019, 369, 57-63.	6.6	142
7	Controlled pyrolysis of MIL-88A to Fe ₂ O ₃ @C nanocomposites with varied morphologies and phases for advanced lithium storage. <i>Journal of Materials Chemistry A</i> , 2017, 5, 25562-25573.	5.2	132
8	MoS ₂ supported on MOF-derived carbon with core-shell structure as efficient electrocatalysts for hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 20538-20545.	3.8	128
9	Graphene aerogel encapsulated Fe-Co oxide nanocubes derived from Prussian blue analogue as integrated anode with enhanced Li-ion storage properties. <i>Applied Surface Science</i> , 2019, 471, 745-752.	3.1	127
10	Nickel@Nitrogen-Doped Carbon@MoS ₂ Nanosheets: An Efficient Electrocatalyst for Hydrogen Evolution Reaction. <i>Small</i> , 2019, 15, e1804545.	5.2	122
11	Construction of unique heterogeneous cobalt-manganese oxide porous microspheres for the assembly of long-cycle and high-rate lithium ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2019, 7, 6149-6160.	5.2	96
12	High N-doped hierarchical porous carbon networks with expanded interlayers for efficient sodium storage. <i>Nano Research</i> , 2020, 13, 2862-2868.	5.8	94
13	Facile synthesis of metal-organic framework-derived Co ₃ O ₄ with different morphologies coated graphene foam as integrated anodes for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2018, 768, 1049-1057.	2.8	86
14	Core-shell structured ZnCo/NC@MoS ₂ electrocatalysts for tunable hydrogen evolution reaction. <i>Electrochimica Acta</i> , 2020, 331, 135445.	2.6	86
15	MOF-Derived CuS@CuBTC Composites as High-Performance Anodes for Lithium-Ion Batteries. <i>Small</i> , 2019, 15, e1903522.	5.2	85
16	Cyanide-metal framework derived CoMoO ₄ /Co ₃ O ₄ hollow porous octahedrons as advanced anodes for high performance lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 1048-1056.	5.2	81
17	Fully catalytic upgrading synthesis of 5-Ethoxymethylfurfural from biomass-derived 5-Hydroxymethylfurfural over recyclable layered-niobium-molybdate solid acid. <i>Applied Catalysis B: Environmental</i> , 2019, 256, 117786.	10.8	80
18	Facile synthesis of MOF-derived hollow NiO microspheres integrated with graphene foam for improved lithium-storage properties. <i>Journal of Alloys and Compounds</i> , 2019, 784, 869-876.	2.8	76

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19	Biomorphic $\text{Co}_x\text{Ni}_x\text{C}/\text{CoO}$ Composite Derived from Natural Chloroplasts as Efficient Electrocatalyst for Oxygen Reduction Reaction. <i>Small</i> , 2019, 15, e1804855.	5.2	72
20	Naphtho[b]-fused BODIPYs: one pot Suzuki–Miyaura–Knoevenagel synthesis and photophysical properties. <i>Chemical Communications</i> , 2017, 53, 6621-6624.	2.2	65
21	Prussian blue nanocubes supported on graphene foam as superior binder-free anode of lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2018, 749, 811-817.	2.8	60
22	B- and N-embedded color-tunable phosphorescent iridium complexes and N Lewis adducts with intriguing structural and optical changes. <i>Chemical Science</i> , 2019, 10, 3257-3263.	3.7	53
23	Ultrathin Ni-Al layered double hydroxide nanosheets with enhanced supercapacitor performance. <i>Ceramics International</i> , 2017, 43, 14395-14400.	2.3	52
24	Design and self-assembly of metal-organic framework-derived porous Co_3O_4 hierarchical structures for lithium-ion batteries. <i>Ceramics International</i> , 2016, 42, 5160-5170.	2.3	49
25	In situ Surface Chemistry Engineering of Cobalt-Sulfide Nanosheets for Improved Oxygen Evolution Activity. <i>ACS Applied Energy Materials</i> , 2019, 2, 4439-4449.	2.5	49
26	Growth of MoS_2 nanosheets on M@N-doped carbon particles (M = Co, Fe or CoFe Alloy) as an efficient electrocatalyst toward hydrogen evolution reaction. <i>Chemical Engineering Journal</i> , 2022, 428, 132126.	6.6	49
27	Yolk-shelled ZnO/NiO microspheres derived from tetracyanide-metallic-frameworks as bifunctional electrodes for high-performance lithium-ion batteries and supercapacitors. <i>Journal of Power Sources</i> , 2019, 421, 41-49.	4.0	48
28	Metal-organic framework-derived Co_3O_4 covered by MoS_2 nanosheets for high-performance lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2018, 744, 220-227.	2.8	46
29	Controllable Sandwiching of Reduced Graphene Oxide in Hierarchical Defect-Rich MoS_2 Ultrathin Nanosheets with Expanded Interlayer Spacing for Electrocatalytic Hydrogen Evolution Reaction. <i>Advanced Materials Interfaces</i> , 2018, 5, 1801093.	1.9	45
30	Porous carbon derived from metal-organic framework@graphene quantum dots as electrode materials for supercapacitors and lithium-ion batteries. <i>RSC Advances</i> , 2019, 9, 9577-9583.	1.7	45
31	Silk-inspired stretchable fiber-shaped supercapacitors with ultrahigh volumetric capacitance and energy density for wearable electronics. <i>Chemical Engineering Journal</i> , 2020, 386, 124024.	6.6	45
32	Boosted capture of volatile organic compounds in adsorption capacity and selectivity by rationally exploiting defect-engineering of $\text{UiO-66}(\text{Zr})$. <i>Separation and Purification Technology</i> , 2021, 266, 118087.	3.9	41
33	Co_3O_4 nanostructures with a high rate performance as anode materials for lithium-ion batteries, prepared via book-like cobalt-organic frameworks. <i>CrystEngComm</i> , 2014, 16, 10227-10234.	1.3	40
34	A mononuclear five-coordinate $\text{Co}(\text{scp})$ single molecule magnet with a spin crossover between the $S = 1/2$ and $3/2$ states. <i>Dalton Transactions</i> , 2018, 47, 16596-16602.	1.6	39
35	Local epitaxial growth of Au-Rh core-shell star-shaped decahedra: A case for studying electronic and ensemble effects in hydrogen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2020, 263, 118255.	10.8	37
36	2D conductive MOFs with sufficient redox sites: reduced graphene oxide/Cu-benzenehexathiolate composites as high capacity anode materials for lithium-ion batteries. <i>Nanoscale</i> , 2021, 13, 7751-7760.	2.8	37

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37	Fabrication of GeO ₂ microspheres /hierarchical porous N-doped carbon with superior cyclic stability for Li-ion batteries. <i>Journal of Solid State Chemistry</i> , 2020, 286, 121303.	1.4	36
38	Slow magnetic relaxation in luminescent mononuclear dysprosium(III) and erbium(III) pentanitrato complexes with the same LnO ₁₀ coordination geometry. <i>Dalton Transactions</i> , 2017, 46, 15812-15818.	1.6	35
39	Multiple Active Sites: Lithium Storage Mechanism of CuTCNQ as an Anode Material for Lithium-ion Batteries. <i>Chemistry - an Asian Journal</i> , 2019, 14, 4289-4295.	1.7	34
40	Thermal Synthesis of FeNi@Nitrogen-Doped Graphene Dispersed on Nitrogen-Doped Carbon Matrix as an Excellent Electrocatalyst for Oxygen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2019, 2, 4075-4083.	2.5	34
41	A capped trigonal prismatic cobalt(II) complex as a structural archetype for single-ion magnets. <i>Dalton Transactions</i> , 2020, 49, 2063-2067.	1.6	32
42	Slow magnetic relaxation influenced by change of symmetry from ideal C _{3i} to D _{3d} in cobalt(II)-based single-ion magnets. <i>Dalton Transactions</i> , 2018, 47, 2506-2510.	1.6	31
43	A plant-mediated synthesis of nanostructured hydroxyapatite for biomedical applications: a review. <i>RSC Advances</i> , 2020, 10, 40923-40939.	1.7	30
44	Record-high capture of volatile benzene and toluene enabled by activator implant-optimized banana peel-derived engineering carbonaceous adsorbents. <i>Environment International</i> , 2020, 143, 105774.	4.8	30
45	In Situ Derived Electrocatalysts from Fe-Co Sulfides with Enhanced Activity toward Oxygen Evolution. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 18976-18985.	1.8	29
46	Visible-Light-Responsive Nanofibrous Fe ₂ O ₃ Integrated FeOx Cluster-Templated Siliceous Microsheets for Rapid Catalytic Phenol Removal and Enhanced Antibacterial Activity. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 19803-19815.	4.0	28
47	Cyanometallic frameworks derived hierarchical porous Fe ₂ O ₃ /NiO microflowers with excellent lithium-storage property. <i>Journal of Alloys and Compounds</i> , 2017, 698, 469-475.	2.8	26
48	A Single-Anion-Based Red-Emitting Cationic Iridium(III) Complex Bearing a Pyrimidine-Based Bridging Ligand for Oxygen Sensing. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 1131-1136.	1.0	26
49	Bimetallic metal-organic framework derived Sn-based nanocomposites for high-performance lithium storage. <i>Electrochimica Acta</i> , 2019, 323, 134855.	2.6	25
50	An eight-coordinate ytterbium complex with a hexagonal bipyramid geometry exhibiting field-induced single-ion magnet behaviour. <i>Dalton Transactions</i> , 2019, 48, 5621-5626.	1.6	25
51	Ni ₃ S ₂ nanostrips@FeNi-NiFe ₂ O ₄ nanoparticles embedded in N-doped carbon microsphere: An improved electrocatalyst for oxygen evolution reaction. <i>Journal of Colloid and Interface Science</i> , 2022, 617, 1-10.	5.0	25
52	One step in-situ synthesis of Ni ₃ S ₂ /Fe ₂ O ₃ /N-doped carbon composites on Ni foam as an efficient electrocatalyst for overall water splitting. <i>Applied Surface Science</i> , 2020, 527, 146918.	3.1	24
53	Cyanide-metal framework derived porous MoO ₃ -Fe ₂ O ₃ hybrid micro- octahedrons as superior anode for lithium-ion batteries. <i>Chemical Engineering Journal</i> , 2021, 426, 130347.	6.6	24
54	Self-templated formation of hierarchically yolk-shell-structured ZnS/NC dodecahedra with superior lithium storage properties. <i>Nanoscale</i> , 2021, 13, 1988-1996.	2.8	24

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55	Nitrogen-doped carbon composites derived from 7,7,8,8-tetracyanoquinodimethane-based metal-organic frameworks for supercapacitors and lithium-ion batteries. <i>RSC Advances</i> , 2017, 7, 25182-25190.	1.7	23
56	Interfacial engineering coupling with tailored oxygen vacancies in Co ₂ Mn ₂ O ₄ spinel hollow nanofiber for catalytic phenol removal. <i>Journal of Hazardous Materials</i> , 2022, 424, 127647.	6.5	23
57	Synthesis of Tostadas-Shaped Metal-Organic Frameworks for Remitting Capacity Fading of Li-Ion Batteries. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	23
58	Structural Conversion and Magnetic Studies of Low-Dimensional Ln ^{III} /MoV/IV(CN) ₈ (Ln = Gd-Lu) Systems: From Helical Chain to Trinuclear Cluster. <i>Crystal Growth and Design</i> , 2016, 16, 1708-1716.	1.4	21
59	Structure, magnetic anisotropy and relaxation behavior of seven-coordinate Co(II) single-ion magnets perturbed by counter-anions. <i>Dalton Transactions</i> , 2020, 49, 7620-7627.	1.6	21
60	Excellent porous environmental nanocatalyst: tactically integrating size-confined highly active MnO _x in nanospaces of mesopores enables the promotive catalytic degradation efficiency of organic contaminants. <i>New Journal of Chemistry</i> , 2019, 43, 19020-19034.	1.4	20
61	Nanomixture of 0-D ternary metal oxides (TiO ₂ -SnO ₂ -Al ₂ O ₃) cooperating with 1-D hydroxyapatite (HAp) nanorods for RhB removal from synthetic wastewater and hydrogen evolution via water splitting. <i>Chemosphere</i> , 2021, 273, 128575.	4.2	20
62	Three Types of Charged-Ligand-Based Blue-Green to Near-Infrared Emitting Iridium Complexes: Synthesis, Structures, and Organic Light-Emitting Diode Application. <i>Advanced Optical Materials</i> , 2021, 9, 2002060.	3.6	19
63	N, S, O Self-Doped Porous Carbon Nanoarchitectonics Derived from Pinecone with Outstanding Supercapacitance Performances. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 2728-2735.	0.9	18
64	Porous ZnO/NiO Microspherical Structures Prepared by Thermolysis of Heterobimetallic Metal-Organic Framework as Supercapacitor Electrodes. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 2571-2577.	0.9	17
65	Submicron Co ₉ S ₈ /CoS/Carbon Spheres Derived from Bacteria for the Electrocatalytic Oxygen Reduction Reaction. <i>ChemElectroChem</i> , 2019, 6, 4571-4575.	1.7	17
66	Facile Fabrication of Amorphous Ni [~] P Supported on a 3D Biocarbon Skeleton as an Efficient Electrocatalyst for the Oxygen Evolution Reaction. <i>ChemElectroChem</i> , 2019, 6, 3071-3076.	1.7	17
67	Ion-templated fabrication of Pt-Cu alloy octahedra with controlled compositions for electrochemical detection of H ₂ O ₂ . <i>Journal of Alloys and Compounds</i> , 2019, 788, 1334-1340.	2.8	17
68	Construction of CoS ₂ -N-C sheets anchored on 3D graphene network for lithium storage performances. <i>Journal of Nanoparticle Research</i> , 2019, 21, 1.	0.8	16
69	Tuning the Equatorial Negative Charge in Hexagonal Bipyramidal Dysprosium(III) Single-Ion Magnets to Improve the Magnetic Behavior. <i>Inorganic Chemistry</i> , 2022, 61, 3664-3673.	1.9	16
70	Slow magnetic relaxation in two octahedral cobalt(II) complexes with positive axial anisotropy. <i>Inorganica Chimica Acta</i> , 2018, 479, 113-119.	1.2	15
71	Reductive C-N Coupling of Nitroarenes: Heterogenization of MoO ₃ Catalyst by Confinement in Silica. <i>ChemSusChem</i> , 2021, 14, 3413-3421.	3.6	15
72	FeNi/NiFe ₂ O ₄ hybrids confined in N-doped carbon sponge derived from Hofmann-type MOFs for oxygen electrocatalysis. <i>Applied Surface Science</i> , 2022, 596, 153522.	3.1	15

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73	B- and N-Embedded π -Conjugation Units Tuning Intermolecular Interactions and Optical Properties of Platinum(II) Complexes. <i>Inorganic Chemistry</i> , 2021, 60, 525-534.	1.9	14
74	Seed-mediated synthesis of Au@PtCu nanostars with rich twin defects as efficient and stable electrocatalysts for methanol oxidation reaction. <i>RSC Advances</i> , 2019, 9, 35887-35894.	1.7	13
75	An oxygen-bridged triarylamine polycyclic unit based tris-cyclometalated heteroleptic iridium(III) complex: correlation between the structure and photophysical properties. <i>Dalton Transactions</i> , 2019, 48, 4596-4601.	1.6	12
76	Engineering Adsorption Case for Efficient Capture of VOCs Using Biomass-based Corncobs via a Carbonized Strategy. <i>ChemistrySelect</i> , 2020, 5, 9162-9169.	0.7	12
77	Polymer-assisted synthesis and applications of hydroxyapatite (HAp) anchored nitrogen-doped 3D graphene foam-based nanostructured ceramic framework. <i>RSC Advances</i> , 2020, 10, 17918-17929.	1.7	12
78	Combining two active states of FeOx in-situ in molecular sieve to deliver enhanced catalytic activity via creating special configuration and synergy. <i>Journal of Alloys and Compounds</i> , 2020, 844, 156137.	2.8	12
79	Enabling room-temperature reductive C-N coupling of nitroarenes: combining homogeneous and heterogeneous synergetic catalyses mediated by light. <i>Green Chemistry</i> , 2022, 24, 4012-4025.	4.6	12
80	Tuning the Photophysical and Excited State Properties of Phosphorescent Iridium(III) Complexes by Polycyclic Unit Substitution. <i>ChemistryOpen</i> , 2019, 8, 339-343.	0.9	11
81	Strategies to Optimize the Lithium Storage Capability of the Metal-Organic Framework Copper(1,3,5)-trimesic Acid (CuBTC). <i>ChemElectroChem</i> , 2020, 7, 4003-4009.	1.7	11
82	Three types of charged ligand-based neutral phosphorescent iridium(III) complexes featuring <i>nido</i> -carborane: synthesis, structures, and solution processed organic light-emitting diode applications. <i>Dalton Transactions</i> , 2021, 50, 16304-16310.	1.6	11
83	Loading of individual Se-doped Fe ₂ O ₃ -decorated Ni/NiO particles on carbon cloth: facile synthesis and efficient electrocatalysis for the oxygen evolution reaction. <i>Dalton Transactions</i> , 2020, 49, 15682-15692.	1.6	10
84	Three Types of Charged Ligands Based Carboxyl-Containing Iridium(III) Complexes: Structures, Photophysics, and Solution Processed OLED Application. <i>Inorganic Chemistry</i> , 2021, 60, 17699-17704.	1.9	10
85	Hierarchical laminated Al ₂ O ₃ in-situ integrated with high-dispersed Co ₃ O ₄ for improved toluene catalytic combustion. <i>Advanced Powder Technology</i> , 2022, 33, 103377.	2.0	10
86	Deep-Red/Near-Infrared to Blue-Green Phosphorescent Iridium(III) Complexes Featuring Three Differently Charged (0, -1, and -2) Ligands: Structures, Photophysics, and Organic Light-Emitting Diode Application. <i>Inorganic Chemistry</i> , 2022, 61, 10548-10556.	1.9	10
87	A Cu-NHC based phosphorescent binuclear iridium(III)/copper(I) complex with an unpredictable near-linear two-coordination mode. <i>Dalton Transactions</i> , 2018, 47, 17299-17303.	1.6	9
88	Dual-Templating Approaches to Soybeans Milk-Derived Hierarchically Porous Heteroatom-Doped Carbon Materials for Lithium-Ion Batteries. <i>ChemistryOpen</i> , 2020, 9, 582-587.	0.9	9
89	Hierarchical multi-yolk-shell copper oxide@ copper-1, 3, 5-benzenetricarboxylate as an ultrastable anode for lithium ion batteries. <i>Journal of Colloid and Interface Science</i> , 2022, 617, 568-577.	5.0	9
90	Facile synthesis of novel tungsten-based hierarchical core-shell composite for ultrahigh volumetric lithium storage. <i>Journal of Colloid and Interface Science</i> , 2020, 567, 28-36.	5.0	8

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91	Constructing Cu ₂ O@Ni-Al LDH core-shell structure for high performance supercapacitor electrode material. <i>Journal of Nanoparticle Research</i> , 2019, 21, 1.	0.8	7
92	Comparison of Structural and Optical Properties for N-Embedded Polycyclic and Non-Embedded Cationic Phosphorescent Iridium(III) Complexes. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 1343-1348.	1.0	7
93	Facile development and structural investigations of HAp and HAp/Ta nanostructures: Photocatalytic activity against Turq blue GL dye. <i>Materials Research Express</i> , 2020, 7, 015012.	0.8	7
94	Observation of field-induced single-ion magnet behavior in an octahedral dysprosium complex with a strong ligand field. <i>New Journal of Chemistry</i> , 2021, 45, 2404-2409.	1.4	7
95	CoS ₂ Nanoparticles Embedded in Two-Dimensional Sheet-Shaped N-Doped Carbon for Sodium Storage. <i>European Journal of Inorganic Chemistry</i> , 2021, 2021, 1536-1541.	1.0	5
96	NiFe ₂ O ₄ /rGO composites: Controlled preparation and superior lithium storage properties. <i>Journal of the American Ceramic Society</i> , 2021, 104, 6696.	1.9	5
97	Tuning the ligand field in seven-coordinate Dy(III) complexes to perturb single-ion magnet behavior. <i>New Journal of Chemistry</i> , 2021, 45, 8591-8596.	1.4	4
98	Superhigh selective capture of volatile organic compounds exploiting cigarette butts-derived engineering carbonaceous adsorbent. <i>Chinese Journal of Chemical Engineering</i> , 2022, 46, 194-206.	1.7	4
99	A cyanometallate- and carbonate-bridged dysprosium chain complex with a pentadentate macrocyclic ligand: synthesis, structure, and magnetism. <i>New Journal of Chemistry</i> , 2022, 46, 7892-7898.	1.4	4
100	Synthesis and Photophysical Properties of Naphtho[b]- and Indeno[b]-fused BODIPYs. <i>Dyes and Pigments</i> , 2020, 183, 108676.	2.0	3
101	A New Facial Homoleptic Tris-cyclometalated Iridium(III) Complex with Oxygen-bridged Triarylamine Units. <i>ChemistrySelect</i> , 2020, 5, 4592-4595.	0.7	3
102	Slow magnetic relaxation in dinuclear Co(III)-Co(II) complexes containing a five-coordinated Co(II) centre with easy-axis anisotropy. <i>Dalton Transactions</i> , 2022, , .	1.6	3
103	Improve the Conductivity of CuBTC by in situ Reduction to Core-Shell CuTCNQ@CuBTC. <i>ChemistrySelect</i> , 2020, 5, 15049-15054.	0.7	2
104	Oxygen-Bridged Triphenylamine Units Tuning the Photophysical Properties of Classical Phosphorescent Iridium(III) Complex. <i>ChemistrySelect</i> , 2021, 6, 1777-1781.	0.7	2
105	An Orange-Emitting Phosphorescent Iridium(III) Complex Featuring Three Strong Electron-Donating N-Embedded π -Conjugation Units. <i>ChemistrySelect</i> , 2022, 7, .	0.7	0