

Supeng Pei

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/6414463/supeng-pei-publications-by-year.pdf>

Version: 2024-04-19

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

92
papers

4,945
citations

33
h-index

69
g-index

96
ext. papers

6,587
ext. citations

10.1
avg. IF

5.96
L-index

#	Paper	IF	Citations
92	Correlating Electronic Structure and Device Physics with Mixing Region Morphology in High-Efficiency Organic Solar Cells.. <i>Advanced Science</i> , 2022 , e2104613	13.6	1
91	Ultrafine platinum nanoparticles supported on N,S-codoped porous carbon nanofibers as efficient multifunctional materials for noticeable oxygen reduction reaction and water splitting performance. <i>Nanoscale Advances</i> , 2022 , 4, 1639-1648	5.1	2
90	The molecular ordering and double channel carrier generation of non-fullerene photovoltaics within multi-length-scale morphology.. <i>Advanced Materials</i> , 2022 , e2108317	24	16
89	Single-junction organic solar cells with over 19% efficiency enabled by a refined double-fibril network morphology.. <i>Nature Materials</i> , 2022 ,	27	157
88	Decoupling Complex Multi-Length-Scale Morphology in Non-Fullerene Photovoltaics with Nitrogen K-Edge Resonant Soft X-Ray Scattering. <i>Advanced Materials</i> , 2021 , e2107316	24	2
87	High-Efficiency Organic Photovoltaics using Eutectic Acceptor Fibrils to Achieve Current Amplification. <i>Advanced Materials</i> , 2021 , 33, e2007177	24	52
86	Michael Polyaddition Approach Towards Sulfur Enriched Nonaromatic Polymers with Fluorescence-Phosphorescence Dual Emission. <i>Macromolecular Rapid Communications</i> , 2021 , 42, e2100036	4.8	2
85	CoFe/N, S-C Featured with Graphitic Nanoribbons and Multiple CoFe Nanoparticles as Highly Stable and Efficient Electrocatalysts for the Oxygen Reduction Reaction. <i>ACS Omega</i> , 2021 , 6, 11059-11067	3.9	2
84	Organic Solar Cells: High-Efficiency Organic Photovoltaics using Eutectic Acceptor Fibrils to Achieve Current Amplification (Adv. Mater. 18/2021). <i>Advanced Materials</i> , 2021 , 33, 2170142	24	
83	Clustering-triggered Emission of Nonaromatic Polymers with Multitype Heteroatoms and Effective Hydrogen Bonding. <i>Chemical Research in Chinese Universities</i> , 2021 , 37, 177-182	2.2	4
82	Li-fluorine codoped electrospun carbon nanofibers for enhanced hydrogen storage.. <i>RSC Advances</i> , 2021 , 11, 4053-4061	3.7	8
81	Manipulating the Crystallization Kinetics by Additive Engineering toward High-Efficient Photovoltaic Performance. <i>Advanced Functional Materials</i> , 2021 , 31, 2009103	15.6	7
80	The coupling and competition of crystallization and phase separation, correlating thermodynamics and kinetics in OPV morphology and performances. <i>Nature Communications</i> , 2021 , 12, 332	17.4	64
79	Fluorinated Carbon Nanotube Superamphiphobic Coating for High-Efficiency and Long-Lasting Underwater Antibiofouling Surfaces.. <i>ACS Applied Bio Materials</i> , 2021 , 4, 6351-6360	4.1	2
78	Capture the high-efficiency non-fullerene ternary organic solar cells formula by machine-learning-assisted energy-level alignment optimization. <i>Patterns</i> , 2021 , 2, 100333	5.1	5
77	Ultrasmall Zwitterionic Polypeptide-Coordinated Nanohybrids for Highly Efficient Cancer Photothermal Ferrotherapy. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 44002-44012	9.5	2
76	Polymeric photothermal agents for cancer therapy: recent progress and clinical potential. <i>Journal of Materials Chemistry B</i> , 2021 , 9, 1478-1490	7.3	18

75	Single-layered organic photovoltaics with double cascading charge transport pathways: 18% efficiencies. <i>Nature Communications</i> , 2021 , 12, 309	17.4	302
74	Highly efficient Co centers functionalized by nitrogen-doped carbon for the chemical fixation of CO ₂ . <i>RSC Advances</i> , 2020 , 10, 42408-42412	3.7	2
73	Surface and grain boundary carbon heterogeneity in CH ₃ NH ₃ PbI ₃ perovskites and its impact on optoelectronic properties. <i>Applied Physics Reviews</i> , 2020 , 7, 041412	17.3	3
72	Non-Fullerene Acceptors: Efficient Organic Solar Cell with 16.88% Efficiency Enabled by Refined Acceptor Crystallization and Morphology with Improved Charge Transfer and Transport Properties (Adv. Energy Mater. 18/2020). <i>Advanced Energy Materials</i> , 2020 , 10, 2070083	21.8	2
71	Intrinsic emission and tunable phosphorescence of perfluorosulfonate ionomers with evolved ionic clusters. <i>Science China Chemistry</i> , 2020 , 63, 833-840	7.9	9
70	Efficient Organic Solar Cell with 16.88% Efficiency Enabled by Refined Acceptor Crystallization and Morphology with Improved Charge Transfer and Transport Properties. <i>Advanced Energy Materials</i> , 2020 , 10, 1904234	21.8	252
69	A clustering-triggered emission strategy for tunable multicolor persistent phosphorescence. <i>Chemical Science</i> , 2020 , 11, 2926-2933	9.4	65
68	Clustering-Triggered Efficient Room-Temperature Phosphorescence from Nonconventional Luminophores. <i>ChemPhysChem</i> , 2020 , 21, 36-42	3.2	25
67	Fe, N-doped carbon spheres prepared by electrospinning method as high efficiency oxygen reduction catalyst. <i>RSC Advances</i> , 2020 , 10, 779-783	3.7	4
66	Color-Tunable, Excitation-Dependent, and Time-Dependent Afterglows from Pure Organic Amorphous Polymers. <i>Advanced Materials</i> , 2020 , 32, e2004768	24	56
65	Unraveling the Crystallization Kinetics of 2D Perovskites with Sandwich-Type Structure for High-Performance Photovoltaics. <i>Advanced Materials</i> , 2020 , 32, e2002784	24	25
64	ZIF67@MFC-Derived Co/N-C@CNFs Interconnected Frameworks with Graphitic Carbon-Encapsulated Co Nanoparticles as Highly Stable and Efficient Electrocatalysts for Oxygen Reduction Reactions. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 41580-41589	9.5	28
63	Aggregation-Induced Multilength Scaled Morphology Enabling 11.76% Efficiency in All-Polymer Solar Cells Using Printing Fabrication. <i>Advanced Materials</i> , 2019 , 31, e1902899	24	183
62	Control of aggregation and dissolution of small molecule hole transport layers via a doping strategy for highly efficient perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 11932-11942	7.1	6
61	Emission mechanism understanding and tunable persistent room temperature phosphorescence of amorphous nonaromatic polymers. <i>Materials Chemistry Frontiers</i> , 2019 , 3, 257-264	7.8	91
60	N, F-Codoped Microporous Carbon Nanofibers as Efficient Metal-Free Electrocatalysts for ORR. <i>Nano-Micro Letters</i> , 2019 , 11, 9	19.5	45
59	Reevaluating Protein Photoluminescence: Remarkable Visible Luminescence upon Concentration and Insight into the Emission Mechanism. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 12667-12673	16.4	93
58	Sulphur-containing nonaromatic polymers: clustering-triggered emission and luminescence regulation by oxidation. <i>Polymer Chemistry</i> , 2019 , 10, 3639-3646	4.9	40

57	N, P, S/Fe-codoped Carbon Derived from Feculae Bombycis as an Efficient Electrocatalyst for Oxygen Reduction Reaction. <i>ChemCatChem</i> , 2019 , 11, 6015-6021	5.2	18
56	Achieving Persistent, Efficient, and Robust Room-Temperature Phosphorescence from Pure Organics for Versatile Applications. <i>Advanced Materials</i> , 2019 , 31, e1807222	24	175
55	Reevaluating Protein Photoluminescence: Remarkable Visible Luminescence upon Concentration and Insight into the Emission Mechanism. <i>Angewandte Chemie</i> , 2019 , 131, 12797-12803	3.6	15
54	Triphenylacrylonitrile decorated N-phenylcarbazole: Isomeric effect on photophysical properties. <i>Dyes and Pigments</i> , 2018 , 154, 113-120	4.6	5
53	Synthesis, clustering-triggered emission, explosive detection and cell imaging of nonaromatic polyurethanes. <i>Molecular Systems Design and Engineering</i> , 2018 , 3, 364-375	4.6	58
52	Clustering-Triggered Emission and Persistent Room Temperature Phosphorescence of Sodium Alginate. <i>Biomacromolecules</i> , 2018 , 19, 2014-2022	6.9	149
51	Prevalent intrinsic emission from nonaromatic amino acids and poly(amino acids). <i>Science China Chemistry</i> , 2018 , 61, 351-359	7.9	131
50	A facile and general approach for the direct fabrication of N-rGO-metal(metal oxides)-Pt composites as electrocatalyst for oxygen reduction reactions.. <i>RSC Advances</i> , 2018 , 8, 27246-27252	3.7	7
49	Aggregation-Induced Dual Emission and Unusual Luminescence beyond Excimer Emission of Poly(ethylene terephthalate). <i>Macromolecules</i> , 2018 , 51, 9035-9042	5.5	50
48	Emission and Emissive Mechanism of Nonaromatic Oxygen Clusters. <i>Macromolecular Rapid Communications</i> , 2018 , 39, e1800528	4.8	80
47	A gelable pure organic luminogen with fluorescence-phosphorescence dual emission. <i>Science China Chemistry</i> , 2017 , 60, 806-812	7.9	16
46	Achieving Hybridized Local and Charge-Transfer Excited State and Excellent OLED Performance Through Facile Doping. <i>Advanced Optical Materials</i> , 2017 , 5, 1700466	8.1	18
45	Towards high-performance hybrid hydrophilic membranes: chemical anchoring of hydroxyl-rich nanoparticles on PVDF membranes via a silane coupling agent. <i>Journal of Materials Science</i> , 2017 , 52, 11737-11748	4.3	9
44	Nonconventional macromolecular luminogens with aggregation-induced emission characteristics. <i>Journal of Polymer Science Part A</i> , 2017 , 55, 560-574	2.5	158
43	A two-layer ONIOM study of thiophene cracking catalyzed by proton- and cation-exchanged FAU zeolite. <i>Journal of Molecular Modeling</i> , 2016 , 22, 51	2	3
42	Poly(tetrafluoroethylene-co-perfluorovinyl ether sulfonamide) for anion exchange membranes. <i>Polymer Chemistry</i> , 2016 , 7, 2904-2912	4.9	16
41	Clustering-Triggered Emission of Nonconjugated Polyacrylonitrile. <i>Small</i> , 2016 , 12, 6586-6592	11	183
40	ThiolBromo click polymerization for multifunctional polymers: synthesis, light refraction, aggregation-induced emission and explosive detection. <i>Polymer Chemistry</i> , 2015 , 6, 97-105	4.9	43

39	Crystallization-induced dual emission from metal- and heavy atom-free aromatic acids and esters. <i>Chemical Science</i> , 2015 , 6, 4438-4444	9.4	266
38	Dinonylphenyl end-capped poly(ethylene glycol)-b-polystyrene: synthesis and its unusual crystalline and self-assembly behaviors. <i>Journal of Materials Science</i> , 2015 , 50, 4280-4287	4.3	1
37	Rational bridging affording luminogen with AIE features and high field effect mobility. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 4903-4909	7.1	30
36	A facile hydrothermal approach towards photoluminescent carbon dots from amino acids. <i>Journal of Colloid and Interface Science</i> , 2015 , 439, 129-33	9.3	66
35	Diethylamino functionalized tetraphenylethenes: structural and electronic modulation of photophysical properties, implication for the CIE mechanism and application to cell imaging. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 112-120	7.1	81
34	Conjugation-Induced Rigidity in Twisting Molecules: Filling the Gap Between Aggregation-Caused Quenching and Aggregation-Induced Emission. <i>Advanced Materials</i> , 2015 , 27, 4496-4501	24	178
33	Achieving Persistent Room Temperature Phosphorescence and Remarkable Mechanochromism from Pure Organic Luminogens. <i>Advanced Materials</i> , 2015 , 27, 6195-201	24	422
32	Fabrication and biocompatibility of reduced graphene oxide/poly(vinylidene fluoride) composite membranes. <i>RSC Advances</i> , 2015 , 5, 99841-99847	3.7	13
31	Systematic stability investigation of perfluorosulfonic acid membranes with varying ion exchange capacities for fuel cell applications. <i>RSC Advances</i> , 2014 , 4, 6369	3.7	10
30	D π A Solid Emitter with Crowded and Remarkably Twisted Conformations Exhibiting Multifunctionality and Multicolor Mechanochromism. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 10998-11005	3.8	108
29	AIE-active, highly thermally and morphologically stable, mechanochromic and efficient solid emitters for low color temperature OLEDs. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 7552-7560	7.1	52
28	Synthesis of photocleavable poly(methyl methacrylate-block-d-lactide) via atom-transfer radical polymerization and ring-opening polymerization. <i>Journal of Polymer Science Part A</i> , 2013 , 51, 4309-4316	2.5	16
27	Room temperature phosphorescence from natural products: Crystallization matters. <i>Science China Chemistry</i> , 2013 , 56, 1178-1182	7.9	142
26	Crystallization-induced phosphorescence of benzils at room temperature. <i>Science China Chemistry</i> , 2013 , 56, 1183-1186	7.9	61
25	High efficiency D-A structured luminogen with aggregation-induced emission and mechanochromic characteristics. <i>Science Bulletin</i> , 2013 , 58, 2719-2722		15
24	Evidence for a crystallite-rich skin on perfluorosulfonate ionomer membranes. <i>RSC Advances</i> , 2013 , 3, 8947	3.7	17
23	Properties of precursor solution cast PFSI membranes with various ion exchange capacities and annealing temperatures. <i>RSC Advances</i> , 2013 , 3, 7289	3.7	5
22	Crystallization-Induced Phosphorescence for Purely Organic Phosphors at Room Temperature and Liquid Crystals with Aggregation-Induced Emission Characteristics 2013 , 43-60		2

21	Enhancing the anti-cracking performance of perfluorosulfonic acid membranes for implantable biosensors through supercritical CO ₂ treatment. <i>Journal of Materials Science</i> , 2012 , 47, 3602-3606	4.3	4
20	High performance of lithium-ion polymer battery based on non-aqueous lithiated perfluorinated sulfonic ion-exchange membranes. <i>Energy and Environmental Science</i> , 2012 , 5, 5690-5693	35.4	114
19	Fluorine-containing block copolymer particles with surface and internal hierarchical microphase separation structures. <i>Soft Matter</i> , 2012 , 8, 2471	3.6	22
18	High quality pristine perfluorosulfonated ionomer membranes prepared from perfluorinated sulfonyl fluoride solution. <i>RSC Advances</i> , 2012 , 2, 5950	3.7	9
17	Order-order phase transition and transformation in co-assembled particles from fluorinated FA/FB type diblock copolymers. <i>Soft Matter</i> , 2012 , 8, 8405	3.6	5
16	Efficient Solid Emitters with Aggregation-Induced Emission and Intramolecular Charge Transfer Characteristics: Molecular Design, Synthesis, Photophysical Behaviors, and OLED Application. <i>Chemistry of Materials</i> , 2012 , 24, 1518-1528	9.6	418
15	Fluorene- and benzimidazole-based blue light-emitting copolymers: Synthesis, photophysical properties, and PLED applications. <i>Journal of Polymer Science Part A</i> , 2012 , 50, 2172-2181	2.5	13
14	Rheological study on tetrafluoroethylene/hexafluoropropylene copolymer and its implication for processability. <i>Journal of Applied Polymer Science</i> , 2012 , 125, 3361-3367	2.9	5
13	Biocompatibility and anti-cracking performance of perfluorocarboxylic acid ionomer membranes for implantable biosensors. <i>Journal of Materials Science</i> , 2012 , 47, 5181-5189	4.3	5
12	Surface characteristics and blood compatibility of PVDF/PMMA membranes. <i>Journal of Materials Science</i> , 2012 , 47, 5030-5040	4.3	19
11	Fabrication of polymeric honeycomb microporous films: breath figures strategy and stabilization of water droplets by fluorinated diblock copolymer micelles. <i>Journal of Materials Science</i> , 2012 , 47, 6862-6871	4.3	21
10	Melt rheological properties of ETFE: an attempt to illuminate the fluorine-substitution effect. <i>Polymer Bulletin</i> , 2012 , 69, 375-388	2.4	4
9	Facile hydrophobic modification of hybrid poly(urethane-urea)methacrylate aqueous dispersions and films through blending with novel waterborne fluorinated acrylic copolymers. <i>Colloid and Polymer Science</i> , 2012 , 290, 491-506	2.4	9
8	Evaluation of electrospun nanofiber formation of perfluorosulfonic acid and poly (N-vinylpyrrolidone) through solution rheology. <i>Journal of Materials Science</i> , 2011 , 46, 7501-7510	4.3	5
7	Three different Cyclodextrins direct the emulsion copolymerization of a highly fluorinated methacrylate toward distinctive nanostructured particle morphologies. <i>Journal of Polymer Science Part A</i> , 2011 , 49, 4518-4530	2.5	9
6	Transport properties of PFSA membranes with various ion exchange capacities for direct methanol fuel cell application. <i>Energy and Environmental Science</i> , 2010 , 3, 114-116	35.4	23
5	Preparation and characterization of perfluorosulfonic resin/titania hybrid transparent films. <i>Science in China Series B: Chemistry</i> , 2007 , 50, 243-248		2
4	Slot-Die-Coated Organic Solar Cells Optimized through Multistep Crystallization Kinetics. <i>Solar Energy</i> , 2007 , 81, 1007-1014		1

- 3 Manipulating the Crystalline Morphology in the Nonfullerene Acceptor Mixture to Improve the Carrier Transport and Suppress the Energetic Disorder. *Small Science*,2100092 1
- 2 Progress and prospects of the morphology of non-fullerene acceptor based high-efficiency organic solar cells. *Energy and Environmental Science*, 35:4 45
- 1 Melamine-Doped Cathode Interlayer Enables High-Efficiency Organic Solar Cells. *ACS Energy Letters*,3582-3589,10