

# Supeng Pei

## List of Publications by Citations

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92  
papers

4,945  
citations

33  
h-index

69  
g-index

96  
ext. papers

6,587  
ext. citations

10.1  
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5.96  
L-index

#	Paper	IF	Citations
92	Achieving Persistent Room Temperature Phosphorescence and Remarkable Mechanochromism from Pure Organic Luminogens. <i>Advanced Materials</i> , <b>2015</b> , 27, 6195-201	24	422
91	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> , <b>2012</b> , 24, 1518-1528	9.6	418
90	Single-layered organic photovoltaics with double cascading charge transport pathways: 18% efficiencies. <i>Nature Communications</i> , <b>2021</b> , 12, 309	17.4	302
89	Crystallization-induced dual emission from metal- and heavy atom-free aromatic acids and esters. <i>Chemical Science</i> , <b>2015</b> , 6, 4438-4444	9.4	266
88	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> , <b>2020</b> , 10, 1904234	21.8	252
87	Aggregation-Induced Multilength Scaled Morphology Enabling 11.76% Efficiency in All-Polymer Solar Cells Using Printing Fabrication. <i>Advanced Materials</i> , <b>2019</b> , 31, e1902899	24	183
86	Clustering-Triggered Emission of Nonconjugated Polyacrylonitrile. <i>Small</i> , <b>2016</b> , 12, 6586-6592	11	183
85	Conjugation-Induced Rigidity in Twisting Molecules: Filling the Gap Between Aggregation-Caused Quenching and Aggregation-Induced Emission. <i>Advanced Materials</i> , <b>2015</b> , 27, 4496-4501	24	178
84	Achieving Persistent, Efficient, and Robust Room-Temperature Phosphorescence from Pure Organics for Versatile Applications. <i>Advanced Materials</i> , <b>2019</b> , 31, e1807222	24	175
83	Nonconventional macromolecular luminogens with aggregation-induced emission characteristics. <i>Journal of Polymer Science Part A</i> , <b>2017</b> , 55, 560-574	2.5	158
82	Single-junction organic solar cells with over 19% efficiency enabled by a refined double-fibril network morphology.. <i>Nature Materials</i> , <b>2022</b> ,	27	157
81	Clustering-Triggered Emission and Persistent Room Temperature Phosphorescence of Sodium Alginate. <i>Biomacromolecules</i> , <b>2018</b> , 19, 2014-2022	6.9	149
80	Room temperature phosphorescence from natural products: Crystallization matters. <i>Science China Chemistry</i> , <b>2013</b> , 56, 1178-1182	7.9	142
79	Prevalent intrinsic emission from nonaromatic amino acids and poly(amino acids). <i>Science China Chemistry</i> , <b>2018</b> , 61, 351-359	7.9	131
78	High performance of lithium-ion polymer battery based on non-aqueous lithiated perfluorinated sulfonic ion-exchange membranes. <i>Energy and Environmental Science</i> , <b>2012</b> , 5, 5690-5693	35.4	114
77	DNA Solid Emitter with Crowded and Remarkably Twisted Conformations Exhibiting Multifunctionality and Multicolor Mechanochromism. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 10998-11005	3.8	108
76	Reevaluating Protein Photoluminescence: Remarkable Visible Luminescence upon Concentration and Insight into the Emission Mechanism. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 12667-12673	16.4	93

75	Emission mechanism understanding and tunable persistent room temperature phosphorescence of amorphous nonaromatic polymers. <i>Materials Chemistry Frontiers</i> , <b>2019</b> , 3, 257-264	7.8	91
74	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> , <b>2015</b> , 3, 112-120	7.1	81
73	Emission and Emissive Mechanism of Nonaromatic Oxygen Clusters. <i>Macromolecular Rapid Communications</i> , <b>2018</b> , 39, e1800528	4.8	80
72	A facile hydrothermal approach towards photoluminescent carbon dots from amino acids. <i>Journal of Colloid and Interface Science</i> , <b>2015</b> , 439, 129-33	9.3	66
71	A clustering-triggered emission strategy for tunable multicolor persistent phosphorescence. <i>Chemical Science</i> , <b>2020</b> , 11, 2926-2933	9.4	65
70	The coupling and competition of crystallization and phase separation, correlating thermodynamics and kinetics in OPV morphology and performances. <i>Nature Communications</i> , <b>2021</b> , 12, 332	17.4	64
69	Crystallization-induced phosphorescence of benzils at room temperature. <i>Science China Chemistry</i> , <b>2013</b> , 56, 1183-1186	7.9	61
68	Synthesis, clustering-triggered emission, explosive detection and cell imaging of nonaromatic polyurethanes. <i>Molecular Systems Design and Engineering</i> , <b>2018</b> , 3, 364-375	4.6	58
67	Color-Tunable, Excitation-Dependent, and Time-Dependent Afterglows from Pure Organic Amorphous Polymers. <i>Advanced Materials</i> , <b>2020</b> , 32, e2004768	24	56
66	AIE-active, highly thermally and morphologically stable, mechanochromic and efficient solid emitters for low color temperature OLEDs. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 7552-7560	7.1	52
65	High-Efficiency Organic Photovoltaics using Eutectic Acceptor Fibrils to Achieve Current Amplification. <i>Advanced Materials</i> , <b>2021</b> , 33, e2007177	24	52
64	Aggregation-Induced Dual Emission and Unusual Luminescence beyond Excimer Emission of Poly(ethylene terephthalate). <i>Macromolecules</i> , <b>2018</b> , 51, 9035-9042	5.5	50
63	N, F-Codoped Microporous Carbon Nanofibers as Efficient Metal-Free Electrocatalysts for ORR. <i>Nano-Micro Letters</i> , <b>2019</b> , 11, 9	19.5	45
62	Progress and prospects of the morphology of non-fullerene acceptor based high-efficiency organic solar cells. <i>Energy and Environmental Science</i> ,	35.4	45
61	ThiolBromo click polymerization for multifunctional polymers: synthesis, light refraction, aggregation-induced emission and explosive detection. <i>Polymer Chemistry</i> , <b>2015</b> , 6, 97-105	4.9	43
60	Sulphur-containing nonaromatic polymers: clustering-triggered emission and luminescence regulation by oxidation. <i>Polymer Chemistry</i> , <b>2019</b> , 10, 3639-3646	4.9	40
59	Rational bridging affording luminogen with AIE features and high field effect mobility. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 4903-4909	7.1	30
58	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 &amp; Interfaces</i> , <b>2020</b> , 12, 41580-41589	9.5	28

57	Clustering-Triggered Efficient Room-Temperature Phosphorescence from Nonconventional Luminophores. <i>ChemPhysChem</i> , <b>2020</b> , 21, 36-42	3.2	25
56	Unraveling the Crystallization Kinetics of 2D Perovskites with Sandwich-Type Structure for High-Performance Photovoltaics. <i>Advanced Materials</i> , <b>2020</b> , 32, e2002784	24	25
55	Transport properties of PFSA membranes with various ion exchange capacities for direct methanol fuel cell application. <i>Energy and Environmental Science</i> , <b>2010</b> , 3, 114-116	35.4	23
54	Fluorine-containing block copolymer particles with surface and internal hierarchical microphase separation structures. <i>Soft Matter</i> , <b>2012</b> , 8, 2471	3.6	22
53	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> , <b>2012</b> , 47, 6862-6871	4.3	21
52	Surface characteristics and blood compatibility of PVDF/PMMA membranes. <i>Journal of Materials Science</i> , <b>2012</b> , 47, 5030-5040	4.3	19
51	N, P, S/Fe-codoped Carbon Derived from Feculae Bombycis as an Efficient Electrocatalyst for Oxygen Reduction Reaction. <i>ChemCatChem</i> , <b>2019</b> , 11, 6015-6021	5.2	18
50	Achieving Hybridized Local and Charge-Transfer Excited State and Excellent OLED Performance Through Facile Doping. <i>Advanced Optical Materials</i> , <b>2017</b> , 5, 1700466	8.1	18
49	Polymeric photothermal agents for cancer therapy: recent progress and clinical potential. <i>Journal of Materials Chemistry B</i> , <b>2021</b> , 9, 1478-1490	7.3	18
48	Evidence for a crystallite-rich skin on perfluorosulfonate ionomer membranes. <i>RSC Advances</i> , <b>2013</b> , 3, 8947	3.7	17
47	A gelable pure organic luminogen with fluorescence-phosphorescence dual emission. <i>Science China Chemistry</i> , <b>2017</b> , 60, 806-812	7.9	16
46	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> , <b>2013</b> , 51, 4309-4316	2.5	16
45	Poly(tetrafluoroethylene-co-perfluorovinyl ether sulfonamide) for anion exchange membranes. <i>Polymer Chemistry</i> , <b>2016</b> , 7, 2904-2912	4.9	16
44	The molecular ordering and double channel carrier generation of non-fullerene photovoltaics within multi-length-scale morphology.. <i>Advanced Materials</i> , <b>2022</b> , e2108317	24	16
43	Reevaluating Protein Photoluminescence: Remarkable Visible Luminescence upon Concentration and Insight into the Emission Mechanism. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 12797-12803	3.6	15
42	High efficiency D-A structured luminogen with aggregation-induced emission and mechanochromic characteristics. <i>Science Bulletin</i> , <b>2013</b> , 58, 2719-2722		15
41	Fabrication and biocompatibility of reduced graphene oxide/poly(vinylidene fluoride) composite membranes. <i>RSC Advances</i> , <b>2015</b> , 5, 99841-99847	3.7	13
40	Fluorene- and benzimidazole-based blue light-emitting copolymers: Synthesis, photophysical properties, and PLED applications. <i>Journal of Polymer Science Part A</i> , <b>2012</b> , 50, 2172-2181	2.5	13

39	Systematic stability investigation of perfluorosulfonic acid membranes with varying ion exchange capacities for fuel cell applications. <i>RSC Advances</i> , <b>2014</b> , 4, 6369	3.7	10
38	Melamine-Doped Cathode Interlayer Enables High-Efficiency Organic Solar Cells. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 3582-3589	3.5	10
37	Intrinsic emission and tunable phosphorescence of perfluorosulfonate ionomers with evolved ionic clusters. <i>Science China Chemistry</i> , <b>2020</b> , 63, 833-840	7.9	9
36	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> , <b>2017</b> , 52, 11737-11748	4.3	9
35	High quality pristine perfluorosulfonated ionomer membranes prepared from perfluorinated sulfonyl fluoride solution. <i>RSC Advances</i> , <b>2012</b> , 2, 5950	3.7	9
34	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> , <b>2012</b> , 290, 491-506	2.4	9
33	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> , <b>2011</b> , 49, 4518-4530	2.5	9
32	Li-fluorine codoped electrospun carbon nanofibers for enhanced hydrogen storage.. <i>RSC Advances</i> , <b>2021</b> , 11, 4053-4061	3.7	8
31	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> , <b>2018</b> , 8, 27246-27252	3.7	7
30	Manipulating the Crystallization Kinetics by Additive Engineering toward High-Efficient Photovoltaic Performance. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2009103	15.6	7
29	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> , <b>2019</b> , 7, 11932-11942	7.1	6
28	Triphenylacrylonitrile decorated N-phenylcarbazole: Isomeric effect on photophysical properties. <i>Dyes and Pigments</i> , <b>2018</b> , 154, 113-120	4.6	5
27	Properties of precursor solution cast PFSI membranes with various ion exchange capacities and annealing temperatures. <i>RSC Advances</i> , <b>2013</b> , 3, 7289	3.7	5
26	Order-order phase transition and transformation in co-assembled particles from fluorinated FA/FB type diblock copolymers. <i>Soft Matter</i> , <b>2012</b> , 8, 8405	3.6	5
25	Rheological study on tetrafluoroethylene/hexafluoropropylene copolymer and its implication for processability. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 125, 3361-3367	2.9	5
24	Biocompatibility and anti-cracking performance of perfluorocarboxylic acid ionomer membranes for implantable biosensors. <i>Journal of Materials Science</i> , <b>2012</b> , 47, 5181-5189	4.3	5
23	Evaluation of electrospun nanofiber formation of perfluorosulfonic acid and poly (N-vinylpyrrolidone) through solution rheology. <i>Journal of Materials Science</i> , <b>2011</b> , 46, 7501-7510	4.3	5
22	Capture the high-efficiency non-fullerene ternary organic solar cells formula by machine-learning-assisted energy-level alignment optimization. <i>Patterns</i> , <b>2021</b> , 2, 100333	5.1	5

21	Enhancing the anti-cracking performance of perfluorosulfonic acid membranes for implantable biosensors through supercritical CO <sub>2</sub> treatment. <i>Journal of Materials Science</i> , <b>2012</b> , 47, 3602-3606	4.3	4
20	Melt rheological properties of ETFE: an attempt to illuminate the fluorine-substitution effect. <i>Polymer Bulletin</i> , <b>2012</b> , 69, 375-388	2.4	4
19	Fe, N-doped carbon spheres prepared by electrospinning method as high efficiency oxygen reduction catalyst.. <i>RSC Advances</i> , <b>2020</b> , 10, 779-783	3.7	4
18	Clustering-triggered Emission of Nonaromatic Polymers with Multitype Heteroatoms and Effective Hydrogen Bonding. <i>Chemical Research in Chinese Universities</i> , <b>2021</b> , 37, 177-182	2.2	4
17	Surface and grain boundary carbon heterogeneity in CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> perovskites and its impact on optoelectronic properties. <i>Applied Physics Reviews</i> , <b>2020</b> , 7, 041412	17.3	3
16	A two-layer ONIOM study of thiophene cracking catalyzed by proton- and cation-exchanged FAU zeolite. <i>Journal of Molecular Modeling</i> , <b>2016</b> , 22, 51	2	3
15	Highly efficient Co centers functionalized by nitrogen-doped carbon for the chemical fixation of CO.. <i>RSC Advances</i> , <b>2020</b> , 10, 42408-42412	3.7	2
14	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> , <b>2020</b> , 10, 2070083	21.8	2
13	Crystallization-Induced Phosphorescence for Purely Organic Phosphors at Room Temperature and Liquid Crystals with Aggregation-Induced Emission Characteristics <b>2013</b> , 43-60		2
12	Preparation and characterization of perfluorosulfonic resin/titania hybrid transparent films. <i>Science in China Series B: Chemistry</i> , <b>2007</b> , 50, 243-248		2
11	Decoupling Complex Multi-Length-Scale Morphology in Non-Fullerene Photovoltaics with Nitrogen K-Edge Resonant Soft X-Ray Scattering. <i>Advanced Materials</i> , <b>2021</b> , e2107316	24	2
10	Michael Polyaddition Approach Towards Sulfur Enriched Nonaromatic Polymers with Fluorescence-Phosphorescence Dual Emission. <i>Macromolecular Rapid Communications</i> , <b>2021</b> , 42, e2100036	4.8	2
9	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> , <b>2021</b> , 6, 11059-11067	3.9	2
8	Fluorinated Carbon Nanotube Superamphiphobic Coating for High-Efficiency and Long-Lasting Underwater Antibiofouling Surfaces.. <i>ACS Applied Bio Materials</i> , <b>2021</b> , 4, 6351-6360	4.1	2
7	Ultrasmall Zwitterionic Polypeptide-Coordinated Nanohybrids for Highly Efficient Cancer Photothermal Ferrotherapy. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 44002-44012	9.5	2
6	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> , <b>2022</b> , 4, 1639-1648	5.1	2
5	Dinonylphenyl end-capped poly(ethylene glycol)-b-polystyrene: synthesis and its unusual crystalline and self-assembly behaviors. <i>Journal of Materials Science</i> , <b>2015</b> , 50, 4280-4287	4.3	1
4	Correlating Electronic Structure and Device Physics with Mixing Region Morphology in High-Efficiency Organic Solar Cells.. <i>Advanced Science</i> , <b>2022</b> , e2104613	13.6	1

- 3 Slot-Die-Coated Organic Solar Cells Optimized through Multistep Crystallization Kinetics. *Solar Rrl*, 2100740 1
- 2 Manipulating the Crystalline Morphology in the Nonfullerene Acceptor Mixture to Improve the Carrier Transport and Suppress the Energetic Disorder. *Small Science*, 2100092 1
- 1 Organic Solar Cells: High-Efficiency Organic Photovoltaics using Eutectic Acceptor Fibrils to Achieve Current Amplification (Adv. Mater. 18/2021). *Advanced Materials*, **2021**, 33, 2170142 24