

Peng-Fei Duan

List of Publications by Year in descending order

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114
papers

7,780
citations

41344

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53230

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docs citations

119
times ranked

4596
citing authors

#	ARTICLE	IF	CITATIONS
1	Circularly Polarized Luminescence in Nanoassemblies: Generation, Amplification, and Application. <i>Advanced Materials</i> , 2020, 32, e1900110.	21.0	602
2	Chirality and energy transfer amplified circularly polarized luminescence in composite nanohelix. <i>Nature Communications</i> , 2017, 8, 15727.	12.8	357
3	Self-Assembled Luminescent Quantum Dots To Generate Full-Color and White Circularly Polarized Light. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 12174-12178.	13.8	295
4	Photon Upconversion in Supramolecular Gel Matrixes: Spontaneous Accumulation of Light-Harvesting Donor-Acceptor Arrays in Nanofibers and Acquired Air Stability. <i>Journal of the American Chemical Society</i> , 2015, 137, 1887-1894.	13.7	268
5	Full-Color Tunable Circularly Polarized Luminescent Nanoassemblies of Achiral AIEgens in Confined Chiral Nanotubes. <i>Advanced Materials</i> , 2017, 29, 1606503.	21.0	252
6	Frontiers in circularly polarized luminescence: molecular design, self-assembly, nanomaterials, and applications. <i>Science China Chemistry</i> , 2021, 64, 2060-2104.	8.2	248
7	Gelation induced supramolecular chirality: chirality transfer, amplification and application. <i>Soft Matter</i> , 2014, 10, 5428.	2.7	216
8	Endowing Perovskite Nanocrystals with Circularly Polarized Luminescence. <i>Advanced Materials</i> , 2018, 30, e1705011.	21.0	213
9	Photon Upconverting Liquids: Matrix-Free Molecular Upconversion Systems Functioning in Air. <i>Journal of the American Chemical Society</i> , 2013, 135, 19056-19059.	13.7	210
10	New Perspectives to Trigger and Modulate Circularly Polarized Luminescence of Complex and Aggregated Systems: Energy Transfer, Photon Upconversion, Charge Transfer, and Organic Radical. <i>Accounts of Chemical Research</i> , 2020, 53, 1279-1292.	15.6	210
11	Cooperative Chirality and Sequential Energy Transfer in a Supramolecular Light-Harvesting Nanotube. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 844-848.	13.8	199
12	Amplification of Circularly Polarized Luminescence through Triplet-Triplet Annihilation-Based Photon Upconversion. <i>Journal of the American Chemical Society</i> , 2017, 139, 9783-9786.	13.7	189
13	Enhanced Circularly Polarized Luminescence in Emissive Charge-Transfer Complexes. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7013-7019.	13.8	137
14	Boosting the circularly polarized luminescence of small organic molecules <i>via</i> multi-dimensional morphology control. <i>Chemical Science</i> , 2019, 10, 6821-6827.	7.4	133
15	Multiresponsive Chiroptical Switch of an Azobenzene-Containing Lipid: Solvent, Temperature, and Photoregulated Supramolecular Chirality. <i>Journal of Physical Chemistry B</i> , 2011, 115, 3322-3329.	2.6	129
16	Two-Photon Absorption-Based Upconverted Circularly Polarized Luminescence Generated in Chiral Perovskite Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 3290-3295.	4.6	122
17	Photon-upconverting chiral liquid crystal: significantly amplified upconverted circularly polarized luminescence. <i>Chemical Science</i> , 2019, 10, 172-178.	7.4	120
18	Electric-Field-Regulated Energy Transfer in Chiral Liquid Crystals for Enhancing Upconverted Circularly Polarized Luminescence through Steering the Photonic Bandgap. <i>Advanced Materials</i> , 2020, 32, e2000820.	21.0	115

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19	Optically Active Upconverting Nanoparticles with Induced Circularly Polarized Luminescence and Enantioselectively Triggered Photopolymerization. <i>ACS Nano</i> , 2019, 13, 2804-2811.	14.6	114
20	Hierarchical Self-Assembly of Amphiphilic Peptide Dendrons: Evolution of Diverse Chiral Nanostructures Through Hydrogel Formation Over a Wide pH Range. <i>Chemistry - A European Journal</i> , 2011, 17, 6389-6395.	3.3	106
21	Enhanced Circularly Polarized Luminescence from Reorganized Chiral Emitters on the Skeleton of a Zeolitic Imidazolate Framework. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4978-4982.	13.8	106
22	Self-Assembled Ultralong Chiral Nanotubes and Tuning of Their Chirality Through the Mixing of Enantiomeric Components. <i>Chemistry - A European Journal</i> , 2010, 16, 8034-8040.	3.3	103
23	Circularly Polarized Luminescence of Achiral Cyanine Molecules Assembled on DNA Templates. <i>Journal of the American Chemical Society</i> , 2019, 141, 9490-9494.	13.7	103
24	Sequentially amplified circularly polarized ultraviolet luminescence for enantioselective photopolymerization. <i>Nature Communications</i> , 2020, 11, 5659.	12.8	103
25	Control over the emerging chirality in supramolecular gels and solutions by chiral microvortices in milliseconds. <i>Nature Communications</i> , 2018, 9, 2599.	12.8	92
26	Amphiphilic Schiff Base Organogels: Metal-Ion-Mediated Chiral Twists and Chiral Recognition. <i>Chemistry - A European Journal</i> , 2012, 18, 4916-4922.	3.3	91
27	Universal chiral twist via metal ion induction in the organogel of terephthalic acid substituted amphiphilic l-glutamide. <i>Chemical Communications</i> , 2012, 48, 7501.	4.1	85
28	Regulation of the Chiral Twist and Supramolecular Chirality in Co-Assemblies of Amphiphilic L-Glutamic Acid with Bipyridines. <i>Chemistry - A European Journal</i> , 2011, 17, 3429-3437.	3.3	84
29	A bis-cyclometalated iridium complex as a benchmark sensitizer for efficient visible-to-UV photon upconversion. <i>Chemical Communications</i> , 2014, 50, 13111-13113.	4.1	80
30	Design and Self-Assembly of L-Glutamate-Based Aromatic Dendrons as Ambidextrous Gelators of Water and Organic Solvents. <i>Langmuir</i> , 2009, 25, 8706-8713.	3.5	77
31	Circularly polarized luminescence in chiral nematic liquid crystals: generation and amplification. <i>Materials Chemistry Frontiers</i> , 2021, 5, 4821-4832.	5.9	74
32	Dual Upconverted and Downconverted Circularly Polarized Luminescence in Donor-Acceptor Assemblies. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 9357-9361.	13.8	72
33	A metal ion triggered shrinkable supramolecular hydrogel and controlled release by an amphiphilic peptide dendron. <i>Chemical Communications</i> , 2013, 49, 10823.	4.1	67
34	Aggregation-Induced Photon Upconversion through Control of the Triplet Energy Landscapes of the Solution and Solid States. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7544-7549.	13.8	67
35	Self-Assembled Luminescent Quantum Dots To Generate Full-Color and White Circularly Polarized Light. <i>Angewandte Chemie</i> , 2017, 129, 12342-12346.	2.0	65
36	(R)-Binaphthyl derivatives as chiral dopants: substituent position controlled circularly polarized luminescence in liquid crystals. <i>Chemical Communications</i> , 2019, 55, 5914-5917.	4.1	65

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37	Longâ€Persistent Circularly Polarized Phosphorescence from Chiral Organic Ionic Crystals. Chemistry - A European Journal, 2018, 24, 17444-17448.	3.3	64
38	Isomeric effect in the self-assembly of pyridine-containing L-glutamic lipid: substituent position controlled morphology and supramolecular chirality. Chemical Communications, 2011, 47, 5569-5571.	4.1	62
39	Dual Upconverted and Downconverted Circularly Polarized Luminescence in Donorâ€Acceptor Assemblies. Angewandte Chemie, 2018, 130, 9501-9505.	2.0	60
40	Towards homochiral supramolecular entities from achiral molecules by vortex mixing-accompanied self-assembly. Chemical Science, 2019, 10, 2718-2724.	7.4	60
41	Chiral Platinumâ€Based Metallomesogens with Highly Efficient Circularly Polarized Electroluminescence in Solutionâ€Processed Organic Lightâ€Emitting Diodes. Advanced Optical Materials, 2020, 8, 2000775.	7.3	59
42	Multiâ€Lightâ€Responsive Upconversionâ€andâ€Downshiftingâ€Based Circularly Polarized Luminescent Switches in Chiral Metalâ€Organic Frameworks. Advanced Materials, 2021, 33, e2101797.	21.0	59
43	Circularly Polarized Luminescence from a Pyrene-Cyclodextrin Supra-Dendron. Langmuir, 2018, 34, 5821-5830.	3.5	56
44	Selfâ€Assembly of Î€â€Conjugated Gelators into Emissive Chiral Nanotubes: Emission Enhancement and Chiral Detection. Chemistry - an Asian Journal, 2014, 9, 770-778.	3.3	55
45	Proton triggered circularly polarized luminescence in orthogonal- and co-assemblies of chiral gelators with achiral perylene bisimide. Chemical Communications, 2018, 54, 5630-5633.	4.1	53
46	Selfâ€Assembled Organic Nanotubes through Instant Gelation and Universal Capacity for Guest Molecule Encapsulation. Chemistry - A European Journal, 2012, 18, 5546-5550.	3.3	52
47	Hierarchically Chiral Lattice Self-Assembly Induced Circularly Polarized Luminescence. ACS Nano, 2020, 14, 3190-3198.	14.6	52
48	Chiral Luminescent Liquid Crystal with Multiâ€Stateâ€Reversibility: Breakthrough in Advanced Antiâ€Counterfeiting Materials. Advanced Science, 2022, 9, e2201565.	11.2	51
49	Stoichiometry-controlled inversion of circularly polarized luminescence in co-assembly of chiral gelators with an achiral tetraphenylethylene derivative. Chemical Communications, 2019, 55, 2194-2197.	4.1	50
50	Photon Upconverted Circularly Polarized Luminescence via Tripletâ€Triplet Annihilation. Advanced Materials, 2019, 31, e1805683.	21.0	50
51	Circularly polarized luminescence of nanoassemblies <i>via</i> multi-dimensional chiral architecture control. Nanoscale, 2020, 12, 19497-19515.	5.6	49
52	Light-triggered self-assembly of a cyanostilbene-conjugated glutamide from nanobelts to nanotoroids and inversion of circularly polarized luminescence. Chemical Communications, 2018, 54, 4513-4516.	4.1	48
53	Improving the Overall Properties of Circularly Polarized Luminescent Materials Through Areneâ€Perfluoroarene Interactions. Angewandte Chemie - International Edition, 2021, 60, 4575-4580.	13.8	48
54	Circularly polarized luminescence of achiral open-shell Î€-radicals. Chemical Communications, 2019, 55, 6583-6586.	4.1	45

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55	Steering Nanohelix and Upconverted Circularly Polarized Luminescence by Using Completely Achiral Components. <i>ACS Nano</i> , 2021, 15, 2753-2761.	14.6	44
56	Hierarchical co-assembly of chiral lipid nanotubes with an azobenzene derivative: optical and chiroptical switching. <i>Soft Matter</i> , 2011, 7, 4654.	2.7	43
57	Chirality Amplification of Porphyrin Assemblies Exclusively Constructed from Achiral Porphyrin Derivatives. <i>ChemPhysChem</i> , 2006, 7, 2419-2423.	2.1	40
58	Endowing inorganic nanomaterials with circularly polarized luminescence. <i>Aggregate</i> , 2022, 3, .	9.9	40
59	Organogelation-Controlled Topochemical [2+2] Cycloaddition and Morphological Changes: From Nanofiber to Peculiar Coaxial Hollow Toruloid-Like Nanostructures. <i>Chemistry - A European Journal</i> , 2013, 19, 16072-16079.	3.3	39
60	Enhanced Circularly Polarized Luminescence in Emissive Charge-Transfer Complexes. <i>Angewandte Chemie</i> , 2019, 131, 7087-7093.	2.0	38
61	Dual-Mode Induction of Tunable Circularly Polarized Luminescence from Chiral Metal-Organic Frameworks. <i>Research</i> , 2020, 2020, 6452123.	5.7	38
62	A Peptide Dendron-Based Shrinkable Metallo-Hydrogel for Charged Species Separation and Stepwise Release of Drugs. <i>Chemistry - A European Journal</i> , 2014, 20, 15419-15425.	3.3	37
63	Hierarchical Self-Assembly and Chiroptical Studies of Luminescent 4d-4f Cages. <i>Inorganic Chemistry</i> , 2018, 57, 7982-7992.	4.0	37
64	Halogen Bonded Chiral Emitters: Generation of Chiral Fractal Architecture with Amplified Circularly Polarized Luminescence. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 22711-22716.	13.8	37
65	Enhanced Circularly Polarized Luminescence from Reorganized Chiral Emitters on the Skeleton of a Zeolitic Imidazolate Framework. <i>Angewandte Chemie</i> , 2019, 131, 5032-5036.	2.0	36
66	Fabrication of organogels composed from carbon nanotubes through a supramolecular approach. <i>New Journal of Chemistry</i> , 2010, 34, 2847.	2.8	35
67	Nanotrumpets and circularly polarized luminescent nanotwists hierarchically self-assembled from an achiral C ₃ -symmetric ester. <i>Chemical Communications</i> , 2018, 54, 4025-4028.	4.1	34
68	Self-Assembling Nanotubes Consisting of Rigid Cyclic Peptides. <i>Advanced Functional Materials</i> , 2012, 22, 3051-3056.	14.9	33
69	Langmuir-Blodgett Films and Chiroptical Switch of an Azobenzene-Containing Dendron Regulated by the in Situ Host-Guest Reaction at the Air/Water Interface. <i>Langmuir</i> , 2011, 27, 1326-1331.	3.5	32
70	Solvent-Regulated Self-Assembly of an Achiral Donor-Acceptor Complex in Confined Chiral Nanotubes: Chirality Transfer, Inversion and Amplification. <i>Chemistry - A European Journal</i> , 2017, 23, 8225-8231.	3.3	32
71	Cooperative Chirality and Sequential Energy Transfer in a Supramolecular Light-Harvesting Nanotube. <i>Angewandte Chemie</i> , 2019, 131, 854-858.	2.0	32
72	A new strategy to achieve enhanced upconverted circularly polarized luminescence in chiral perovskite nanocrystals. <i>Nano Research</i> , 2022, 15, 1047-1053.	10.4	31

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73	Doubletâ€“Triplet Energy Transfer-Dominated Photon Upconversion. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 5865-5870.	4.6	30
74	All-or-none switching of photon upconversion in self-assembled organogel systems. <i>Faraday Discussions</i> , 2017, 196, 305-316.	3.2	29
75	Amplifying Dissymmetry Factor of Upconverted Circularly Polarized Luminescence through Chirality-Induced Spin Polarization in the Photon Upconversion Process. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 311-317.	4.6	28
76	Steering Tripletâ€“Triplet Annihilation Upconversion through Enantioselective Self-Assembly in a Supramolecular Gel. <i>Journal of the American Chemical Society</i> , 2021, 143, 13259-13265.	13.7	27
77	Towards a universal organogelator: A general mixing approach to fabricate various organic compounds into organogels. <i>Science China Chemistry</i> , 2011, 54, 1051-1063.	8.2	26
78	Highly efficient photon upconversion based on tripletâ€“triplet annihilation from bichromophoric annihilators. <i>Journal of Materials Chemistry C</i> , 2021, 9, 14201-14208.	5.5	26
79	Modulating the Excited State Chirality of Dynamic Chemical Reactions in Chiral Micelles. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	26
80	Mechanically Controlled and Consecutively Boosted Circularly Polarized Luminescence of Nanoassemblies from Achiral Molecules. <i>Journal of Physical Chemistry C</i> , 2020, 124, 17274-17281.	3.1	25
81	Photopolymerization and Formation of a Stable Purple Langmuirâ€“Blodgett Film Based on the Gemini-Type Amphiphilic Diacetylene Derivatives. <i>Journal of Physical Chemistry B</i> , 2010, 114, 8871-8878.	2.6	24
82	Optically active quantum dots with induced circularly polarized luminescence in amphiphilic peptide dendron hydrogel. <i>Nanoscale Advances</i> , 2019, 1, 508-512.	4.6	21
83	Self-assembly of l-glutamate based aromatic dendrons through the air/water interface: morphology, photodimerization and supramolecular chirality. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 4383.	2.8	19
84	Structural Insights Into 9â€“Styrylanthraceneâ€“Based Luminophores: Geometry Control Versus Mechanofluorochromism and Sensing Properties. <i>Chemistry - an Asian Journal</i> , 2017, 12, 830-834.	3.3	18
85	Signal transmission encryption based on dye-doped chiral liquid crystals <i>via</i> tunable and efficient circularly polarized luminescence. <i>Materials Advances</i> , 2021, 2, 3851-3855.	5.4	18
86	Dynamic Evolution of Coaxial Nanotoruloid in the Self-Assembled Naphthyl-Containing l-Glutamide. <i>Langmuir</i> , 2016, 32, 12534-12541.	3.5	16
87	Photoswitchable Photon Upconversion from Turn-on Mode Fluorescent Diarylethenes. <i>CCS Chemistry</i> , 2021, 3, 665-674.	7.8	16
88	Recent Advances of Circularly Polarized Luminescence in Photon Upconversion Systems. <i>Chemistry Letters</i> , 2021, 50, 546-552.	1.3	15
89	The chiral amine triggered self-assembly of achiral emissive molecules into circularly polarized luminescent supramolecular assemblies. <i>Chemical Communications</i> , 2019, 55, 11135-11138.	4.1	14
90	Preparation of optical active polydiacetylene through gelating and the control of supramolecular chirality. <i>Science China Chemistry</i> , 2010, 53, 432-437.	8.2	13

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91	Photon upconversion in organic nanoparticles and subsequent amplification by plasmonic silver nanowires. <i>Nanoscale</i> , 2018, 10, 985-991.	5.6	13
92	Toward Large Dissymmetry Factor of Circularly Polarized Luminescence in Donor-acceptor Hybrid Systems. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 8566-8574.	4.6	13
93	Circularly polarized luminescent porous crystalline nanomaterials. <i>Nanoscale</i> , 2022, 14, 1123-1135.	5.6	13
94	Interfacial assembly and host-guest interaction of anthracene-conjugated L-glutamate dendron with cyclodextrin at the air/water interface. <i>Chinese Chemical Letters</i> , 2014, 25, 487-490.	9.0	12
95	Amplifying the excited state chirality through self-assembly and subsequent enhancement via plasmonic silver nanowires. <i>Nanoscale</i> , 2020, 12, 19760-19767.	5.6	12
96	Improving the Overall Properties of Circularly Polarized Luminescent Materials Through Arene-perfluoroarene Interactions. <i>Angewandte Chemie</i> , 2021, 133, 4625-4630.	2.0	12
97	Chiral self-assembly regulated photon upconversion based on triplet-triplet annihilation. <i>Chinese Chemical Letters</i> , 2019, 30, 1923-1926.	9.0	11
98	Switching Photon Upconversion by Using Photofluorochromic Annihilator with Low-Lying Triplet. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 3135-3141.	4.6	11
99	Halogen Bonded Chiral Emitters: Generation of Chiral Fractal Architecture with Amplified Circularly Polarized Luminescence. <i>Angewandte Chemie</i> , 2021, 133, 22893.	2.0	11
100	Interfacial assembly of a series of trigonal Schiff base amphiphiles in organized molecular films. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012, 407, 108-115.	4.7	10
101	Regulating the excited state chirality to fabricate high-performance-solid-state circularly polarized luminescence materials. <i>Chemical Science</i> , 2022, 13, 6074-6080.	7.4	9
102	Chiral Perovskite Nanocrystals: Endowing Perovskite Nanocrystals with Circularly Polarized Luminescence (<i>Adv. Mater.</i> 12/2018). <i>Advanced Materials</i> , 2018, 30, 1870081.	21.0	8
103	Tunable Anti-Stokes Shift Behaviors Based on Intramolecular Charge Transfer Characteristics of Diarylethene Derivatives. <i>Advanced Optical Materials</i> , 2022, 10, 2102180.	7.3	5
104	Regulating Circularly Polarized Luminescence of Axially Chiral Anthracene Derivatives through Solvatochromism and Supramolecular Self-assembly. <i>ChemNanoMat</i> , 2021, 7, 429-433.	2.8	4
105	Photofluorochromic water-dispersible nanoparticles for single-photon-absorption upconversion cell imaging. <i>Nanotechnology</i> , 2021, 32, 475606.	2.6	4
106	Modulating the Excited State Chirality of Dynamic Chemical Reactions in Chiral Micelles. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	4
107	Aqueous Photon Upconversion by Anionic Acceptors Self-Assembled on Cationic Bilayer Membranes with a Long Triplet Lifetime. <i>Organic Materials</i> , 2019, 01, 043-049.	2.0	3
108	Cooperative user association and resource allocation for task offloading in hybrid GEO-LEO satellite networks. <i>International Journal of Satellite Communications and Networking</i> , 2022, 40, 230-243.	1.8	3

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109	Numerical Study on the Influence of Distributing Chamber Volume on Metallurgical Effects in Two-Strand Induction Heating Tundish. <i>Metals</i> , 2022, 12, 509.	2.3	3
110	Tunable Circularly Polarized Luminescence of Excited-State Proton-Transfer-Based Chiral Guanidine. <i>Advanced Photonics Research</i> , 2022, 3, .	3.6	3
111	Dependence of the photo-response behavior of self-assembled 2D Azo-derivatives on the functional groups on a solid surface. <i>New Journal of Chemistry</i> , 2019, 43, 6262-6266.	2.8	2
112	Circularly Polarized Luminescence from Gelator Molecules: From Isolated Molecules to Assemblies. , 2020, , 249-272.		1
113	Advanced functional luminogens in the solid-state: general discussion. <i>Faraday Discussions</i> , 2017, 196, 317-334.	3.2	0
114	Interfacial assembled Langmuir films of isomeric lipid derivative: Effect of hydrogen bond and chirality transfer. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 586, 124280.	4.7	0