

# Xinchang Pang

## List of Publications by Year in descending order

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105  
papers

4,869  
citations

108046

37  
h-index

107981

68  
g-index

114  
all docs

114  
docs citations

114  
times ranked

8056  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dual enhancement of carrier generation and migration on Au/g-C <sub>3</sub> N <sub>4</sub> photocatalysts for highly-efficient broadband PET-RAFT polymerization. <i>Polymer Chemistry</i> , 2022, 13, 1022-1030.	1.9	9
2	Resistance-switchable conjugated polyrotaxane for flexible high-performance RRAMs. <i>Materials Horizons</i> , 2022, 9, 1526-1535.	6.4	9
3	In situ monitoring of photo-PISA via aggregation-induced emission (AIE) technology. <i>Journal of Polymer Research</i> , 2022, 29, 1.	1.2	1
4	Anthraquinone-Catalyzed TEMPO Reduction to Realize Two-Electron Energy Storage of Poly(TEMPO-methacrylate). <i>ACS Energy Letters</i> , 2022, 7, 1481-1489.	8.8	8
5	Simple Full-Spectrum Heterogeneous Photocatalyst for Photo-induced Atom Transfer Radical Polymerization (ATRP) under UV/vis/NIR and its Application for the Preparation of Dual Mode Curing Injectable Photoluminescence Hydrogel. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 21555-21563.	4.0	15
6	Inherent Flame-Retardant, Humid Environment Stable and Blue Luminescent Polyamide Elastomer Regulated by Siloxane Moiety. <i>Polymers</i> , 2022, 14, 1919.	2.0	3
7	Continuous Preparation of Homogeneous Crosslinked PDMS Microgel Particles through Photoinduced Reversible Addition-Fragmentation Chain Transfer Polymerization. <i>ACS Applied Polymer Materials</i> , 2022, 4, 4347-4354.	2.0	2
8	Dimensional Optimization for ZnO-Based Mechano-ATRP with Extraordinary Activity. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 4884-4890.	2.1	15
9	Ultrafast Visible-Light-Induced ATRP in Aqueous Media with Carbon Quantum Dots as the Catalyst and Its Application for 3D Printing. <i>Journal of the American Chemical Society</i> , 2022, 144, 9817-9826.	6.6	41
10	Novel tetraphenylethylene (TPE)-functionalized nitroxide/alkoxyamine for nitroxide-mediated homogeneous and heterogeneous polymerizations. <i>Polymer Chemistry</i> , 2021, 12, 526-533.	1.9	7
11	The <i>in situ</i> grafting from approach for the synthesis of polymer brushes on upconversion nanoparticles via NIR-mediated RAFT polymerization. <i>Polymer Chemistry</i> , 2021, 12, 545-553.	1.9	20
12	3D-Printed thermoplastic polyurethane/graphene composite with porous segregated structure: Toward ultralow percolation threshold and great strain sensitivity. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50168.	1.3	14
13	Solution-processed electronics for artificial synapses. <i>Materials Horizons</i> , 2021, 8, 447-470.	6.4	74
14	A synthesized semi-aromatic copolyamide through synergy of three different kinds of monomers: Toward high transparency, excellent heat resistance and melt flowing property. <i>Journal of Applied Polymer Science</i> , 2021, 138, 49678.	1.3	4
15	From 0-dimension to 1-dimensions: Au nanocrystals as versatile plasmonic photocatalyst for broadband light induced RAFT polymerization. <i>Polymer Chemistry</i> , 2021, 12, 2439-2446.	1.9	4
16	Achieving small non-radiative energy loss through synergically non-fullerene electron acceptor selection and side chain engineering in benzo[1,2-b:4,5-b']difuran polymer-based organic solar cells. <i>Journal of Materials Chemistry A</i> , 2021, 9, 15798-15806.	5.2	14
17	Wafer-scale single crystals: crystal growth mechanisms, fabrication methods, and functional applications. <i>Journal of Materials Chemistry C</i> , 2021, 9, 7829-7851.	2.7	11
18	Effect of nitrogen type on carbon dot photocatalysts for visible-light-induced atom transfer radical polymerization. <i>Polymer Chemistry</i> , 2021, 12, 3060-3066.	1.9	17

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19	Dual-Protected Metal Halide Perovskite Nanosheets with an Enhanced Set of Stabilities. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 7259-7266.	7.2	45
20	Dual-Protected Metal Halide Perovskite Nanosheets with an Enhanced Set of Stabilities. <i>Angewandte Chemie</i> , 2021, 133, 7335-7342.	1.6	10
21	Benzo[1,2-b:4,5-b <sup>2</sup> ]difuran Polymer-Based Non-Fullerene Organic Solar Cells: The Roles of Non-Fullerene Acceptors and Molybdenum Oxide on Their Ambient Stabilities and Processabilities. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 15448-15458.	4.0	18
22	Unconventional Approach to Fabricating a TiO <sub>2</sub> Nanoring with Precise Dimension Control Based on Starlike Polymeric Nanoreactors. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 3456-3463.	2.1	5
23	Low-Noise Dual-Band Polarimetric Image Sensor Based on 1D Bi <sub>2</sub> S <sub>3</sub> Nanowire. <i>Advanced Science</i> , 2021, 8, e2100075.	5.6	48
24	Synthesis of succinic acid-based polyamide through direct solid-state polymerization method: Avoiding cyclization of succinic acid. <i>Journal of Applied Polymer Science</i> , 2021, 138, 51017.	1.3	11
25	Layer-by-Layer Printing Strategy for High-Performance Flexible Electronic Devices with Low-Temperature Catalyzed Solution-Processed SiO <sub>2</sub> . <i>Small Methods</i> , 2021, 5, 2100263.	4.6	8
26	Hollow Silica Nanotubes for Space-Confined Synthesis of Noble Metal Nanorods and Nanopeapods. <i>ACS Applied Nano Materials</i> , 2021, 4, 6075-6082.	2.4	4
27	Confined Unimolecular Micelles for Precisely Controlled In Situ Synthesis of Stable Ultrasmall Metal Nanocluster Assemblies. <i>Chemistry of Materials</i> , 2021, 33, 5067-5075.	3.2	20
28	PA1111/BaTiO <sub>3</sub> nanocomposites with surprisingly enhanced piezoelectricity at low filler content via in-situ compositing process. <i>Composites Science and Technology</i> , 2021, 209, 108796.	3.8	6
29	From Unimolecular Template to Silver Nanocrystal Clusters: An Effective Strategy to Balance Antibacterial Activity and Cytotoxicity. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 39806-39818.	4.0	9
30	Layer-by-Layer Printing Strategy for High-Performance Flexible Electronic Devices with Low-Temperature Catalyzed Solution-Processed SiO <sub>2</sub> (Small Methods 8/2021). <i>Small Methods</i> , 2021, 5, 2170038.	4.6	0
31	General Route to Colloidal Nanocrystal Clusters with Precise Hierarchical Control via Star-like Nanoreactors. <i>Langmuir</i> , 2021, 37, 10461-10468.	1.6	4
32	Preparation of highly colloidal stable Yolk-Shell nanocomposite and its multi-stimuli responsive based on surface aggregation-induced emission (S-AIE). <i>Journal of Colloid and Interface Science</i> , 2021, 600, 421-429.	5.0	4
33	The controlled growth of conjugated polymer-quantum dot nanocomposites via a unimolecular templating strategy. <i>Chemical Communications</i> , 2021, 57, 1250-1253.	2.2	7
34	Simple and robust nitroxide-mediated polymerization with oxygen tolerance. <i>Polymer Chemistry</i> , 2021, 12, 7010-7015.	1.9	8
35	Influence of Yttrium Addition on the Reduction Property of Tungsten Oxide Prepared via Wet Chemical Method. <i>Acta Metallurgica Sinica (English Letters)</i> , 2020, 33, 275-280.	1.5	12
36	&lt;p&gt;Cascade-Targeting of Charge-Reversal and Disulfide Bonds Shielding for Efficient DOX Delivery of Multistage Sensitive MSNs-COS-SS-CMC&lt;/p&gt;. <i>International Journal of Nanomedicine</i> , 2020, Volume 15, 6153-6165.	3.3	8

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37	Dual Roles of Amino-Functionalized Silicon Quantum Dots (SiQDs) for Visible-Light-Induced Surface-Initiated PET-RAFT Polymerization on Substrates. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 42161-42168.	4.0	26
38	Highly efficient non-fullerene polymer solar cells from a benzo[1,2- <i>b</i> :4,5- <i>b'</i> ]-difuran-based conjugated polymer with improved stabilities. <i>Journal of Materials Chemistry A</i> , 2020, 8, 11381-11390.	5.2	13
39	Atom Transfer Radical Polymerization Driven by Near-Infrared Light with Recyclable Upconversion Nanoparticles. <i>Macromolecules</i> , 2020, 53, 4678-4684.	2.2	71
40	A Versatile Strategy for Unimolecular Micelle-Derived Hollow Polymer Nanoparticles as General Nanoreactors. <i>Langmuir</i> , 2020, 36, 6690-6697.	1.6	0
41	One-pot double in-situ fabrication of transparent semi-aromatic polyamide nanocomposites with upconversion nanoparticles. <i>Composites Communications</i> , 2020, 20, 100361.	3.3	8
42	Size effect of semiconductor quantum dots as photocatalysts for PET-RAFT polymerization. <i>Polymer Chemistry</i> , 2020, 11, 4961-4967.	1.9	31
43	Realizing Efficient Single Organic Molecular White Light-Emitting Diodes from Conformational Isomerization of Quinazoline-Based Emitters. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 14233-14243.	4.0	60
44	Light and magnetism dual-gated photoinduced electron transfer-reversible addition-fragmentation chain transfer (PET-RAFT) polymerization. <i>RSC Advances</i> , 2020, 10, 6850-6857.	1.7	10
45	Synthesis of amphiphilic star-shaped block copolymers through photo-induced metal free atom transfer radical polymerization. <i>European Polymer Journal</i> , 2020, 126, 109557.	2.6	7
46	Visualization of Atom Transfer Radical Polymerization by Aggregation-Induced Emission Technology. <i>Chemistry - an Asian Journal</i> , 2020, 15, 1014-1017.	1.7	15
47	Cell Type-Dependent Specificity and Anti-Inflammatory Effects of Charge-Reversible MSNs-COS-CMC for Targeted Drug Delivery in Cervical Carcinoma. <i>Molecular Pharmaceutics</i> , 2020, 17, 1910-1921.	2.3	6
48	Anomalous Hall effect in a magnetically extended topological insulator heterostructure. <i>Physical Review Materials</i> , 2020, 4, .	0.9	1
49	InVO <sub>4</sub> /AgVO <sub>3</sub> Nanocomposite as a Direct Z-Scheme Photocatalyst toward Efficient and Selective Visible-Light-Driven CO <sub>2</sub> Reduction. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 32025-32037.	4.0	73
50	Organic Templates for Inorganic Nanocrystal Growth. <i>Energy and Environmental Materials</i> , 2019, 2, 38-54.	7.3	21
51	pH-Triggered Charge-Reversal Mesoporous Silica Nanoparticles Stabilized by Chitosan Oligosaccharide/Carboxymethyl Chitosan Hybrids for Effective Intracellular Delivery of Doxorubicin. <i>ACS Applied Bio Materials</i> , 2019, 2, 1907-1919.	2.3	39
52	Facile Fabrication of Size-Tunable Core/Shell Ferroelectric/Polymeric Nanoparticles with Tailorable Dielectric Properties via Organocatalyzed Atom Transfer Radical Polymerization Driven by Visible Light. <i>Scientific Reports</i> , 2019, 9, 1869.	1.6	14
53	Optical Activity of Homochiral Polyamides in Solution and Solid State: Structural Function for Chiral Induction. <i>ACS Omega</i> , 2018, 3, 2463-2469.	1.6	3
54	Two-component anomalous Hall effect in a magnetically doped topological insulator. <i>Nature Communications</i> , 2018, 9, 1282.	5.8	40

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55	Recyclable Oil-Absorption Foams via Secondary Phase Separation. ACS Sustainable Chemistry and Engineering, 2018, 6, 13834-13843.	3.2	39
56	Preparation of novel optically active polyamide@silica hybrid core-shell nanoparticles and application for enantioselective crystallization. Reactive and Functional Polymers, 2018, 131, 326-332.	2.0	3
57	All-Solid-State Synaptic Transistor with Ultralow Conductance for Neuromorphic Computing. Advanced Functional Materials, 2018, 28, 1804170.	7.8	335
58	Facile Fabrication of Transparent and Upconversion Photoluminescent Nanofiber Mats with Tunable Optical Properties. ACS Omega, 2018, 3, 8220-8225.	1.6	13
59	Visible-light-driven photocatalytic degradation of 4-CP and the synergistic reduction of Cr(VI) on one-pot synthesized amorphous Nb <sub>2</sub> O <sub>5</sub> nanorods/graphene heterostructured composites. Chemical Engineering Journal, 2018, 353, 100-114.	6.6	60
60	Facile synthesis of size-tunable superparamagnetic/polymeric core/shell nanoparticles by metal-free atom transfer radical polymerization at ambient temperature. RSC Advances, 2017, 7, 7789-7792.	1.7	10
61	A Synaptic Transistor based on Quasi-2D Molybdenum Oxide. Advanced Materials, 2017, 29, 1700906.	11.1	304
62	Innenr&#246;tikelbild: Unconventional Route to Uniform Hollow Semiconducting Nanoparticles with Tailorable Dimensions, Compositions, Surface Chemistry, and Near-Infrared Absorption (Angew. Chem.) Tj ETQq0100 rgBT /O verlock 1	11.1	304
63	Facile Synthesis and Enhanced Aggregation-Induced Circular Dichroism of Novel Chiral Polyamides. ACS Omega, 2017, 2, 4080-4087.	1.6	3
64	Hairy Uniform Permanently Ligated Hollow Nanoparticles with Precise Dimension Control and Tunable Optical Properties. Journal of the American Chemical Society, 2017, 139, 12956-12967.	6.6	107
65	Unconventional Route to Uniform Hollow Semiconducting Nanoparticles with Tailorable Dimensions, Compositions, Surface Chemistry, and Near-Infrared Absorption. Angewandte Chemie, 2017, 129, 13126-13131.	1.6	8
66	Unconventional Route to Uniform Hollow Semiconducting Nanoparticles with Tailorable Dimensions, Compositions, Surface Chemistry, and Near-Infrared Absorption. Angewandte Chemie - International Edition, 2017, 56, 12946-12951.	7.2	34
67	Atomic-scaled cobalt encapsulated in P,N-doped carbon sheaths over carbon nanotubes for enhanced oxygen reduction electrocatalysis under acidic and alkaline media. Chemical Communications, 2017, 53, 9862-9865.	2.2	87
68	Induction of diffusion and construction of metallurgical interfaces directly between immiscible Mo and Ag by irradiation-induced point defects. RSC Advances, 2017, 7, 53763-53769.	1.7	3
69	Unconventional Strategy to Anatase TiO <sub>2</sub> Nanocrystals with Tunable Surface Chemistry via Liquid Crystalline Polyamides as a Functional Matrix. Journal of Physical Chemistry C, 2017, 121, 27111-27117.	1.5	1
70	Mechanically Durable and Highly Stretchable Transistors Employing Carbon Nanotube Semiconductor and Electrodes. Advanced Materials, 2016, 28, 4441-4448.	11.1	234
71	Innenr&#246;tikelbild: Monodisperse Dual-Functional Upconversion Nanoparticles Enabled Near-Infrared Organolead Halide Perovskite Solar Cells (Angew. Chem. 13/2016). Angewandte Chemie, 2016, 128, 4441-4441.	1.6	3
72	An unconventional route to fabricate highly pure $\pm$ -Al <sub>2</sub> O <sub>3</sub> nanocrystals with tunable surface chemistry based on a semi-aromatic polyamide with pyridine rings as a functional matrix. RSC Advances, 2016, 6, 79263-79267.	1.7	4

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73	1D nanocrystals with precisely controlled dimensions, compositions, and architectures. <i>Science</i> , 2016, 353, 1268-1272.	6.0	316
74	Precisely Size-Tunable Monodisperse Hairy Plasmonic Nanoparticles via Amphiphilic Star-Like Block Copolymers. <i>Small</i> , 2016, 12, 6714-6723.	5.2	68
75	Monodisperse Dual-Functional Upconversion Nanoparticles Enabled Near-Infrared Organolead Halide Perovskite Solar Cells. <i>Angewandte Chemie</i> , 2016, 128, 4352-4356.	1.6	71
76	Monodisperse Dual-Functional Upconversion Nanoparticles Enabled Near-Infrared Organolead Halide Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 4280-4284.	7.2	257
77	From the Unimolecular Template of Water-Soluble Multiarm Star Brush Copolymers to One-Dimensional Colloidal Nanocrystal Clusters: Facile Synthesis via a Combination of Magnetic Assembly with Photoinduced Cross-Linking. <i>Journal of Physical Chemistry C</i> , 2016, 120, 705-714.	1.5	9
78	Nonepitaxial growth of uniform and precisely size-tunable core/shell nanoparticles and their enhanced plasmon-driven photocatalysis. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7190-7199.	5.2	85
79	Highly water-dispersed superparamagnetic magnetite colloidal nanocrystal clusters from multifunctional polymeric nanoreactors: synthesis and properties. <i>RSC Advances</i> , 2016, 6, 9429-9435.	1.7	16
80	Innenstruktur: An Unconventional Route to Monodisperse and Intimately Contacted Semiconducting Organic-Inorganic Nanocomposites ( <i>Angew. Chem.</i> 15/2015). <i>Angewandte Chemie</i> , 2015, 127, 4761-4761.	1.6	0
81	Nanostructures: Graphene-Enabled Superior and Tunable Photomechanical Actuation in Liquid Crystalline Elastomer Nanocomposites ( <i>Adv. Mater.</i> 41/2015). <i>Advanced Materials</i> , 2015, 27, 6535-6535.	11.1	3
82	Precisely Size-Tunable Magnetic/Plasmonic Core/Shell Nanoparticles with Controlled Optical Properties. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 12091-12096.	7.2	69
83	Graphene-Enabled Superior and Tunable Photomechanical Actuation in Liquid Crystalline Elastomer Nanocomposites. <i>Advanced Materials</i> , 2015, 27, 6376-6381.	11.1	149
84	A versatile strategy for uniform hybrid nanoparticles and nanocapsules. <i>Polymer Chemistry</i> , 2015, 6, 5190-5197.	1.9	43
85	An Unconventional Route to Monodisperse and Intimately Contacted Semiconducting Organic-Inorganic Nanocomposites. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 4636-4640.	7.2	54
86	Unconventional Route to Hairy Plasmonic/Semiconductor Core/Shell Nanoparticles with Precisely Controlled Dimensions and Their Use in Solar Energy Conversion. <i>Chemistry of Materials</i> , 2015, 27, 5271-5278.	3.2	76
87	A general route to nanocrystal kebabs periodically assembled on stretched flexible polymer shish. <i>Science Advances</i> , 2015, 1, e1500025.	4.7	69
88	Organic-Inorganic Nanocomposites via Placing Monodisperse Ferroelectric Nanocrystals in Direct and Permanent Contact with Ferroelectric Polymers. <i>Journal of the American Chemical Society</i> , 2015, 137, 11760-11767.	6.6	111
89	Water-soluble star-shaped brush-like block copolymers: synthesis and application as multicompartement nanoreactors for fabrication of quantum dot colloidal nanocrystal clusters. <i>RSC Advances</i> , 2015, 5, 96785-96798.	1.7	5
90	Strictly Biphasic Soft and Hard Janus Structures: Synthesis, Properties, and Applications. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 5524-5538.	7.2	178

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91	Star-like polymer click-functionalized with small capping molecules: an initial investigation into properties and improving solubility in liquid crystals. RSC Advances, 2014, 4, 50212-50219.	1.7	3
92	Unimolecular micelles composed of inner coil-like blocks and outer rod-like blocks crafted by combination of living polymerization with click chemistry. Polymer Chemistry, 2014, 5, 2747-2755.	1.9	34
93	Robust Route to Unimolecular Core-Shell and Hollow Polymer Nanoparticles. Chemistry of Materials, 2014, 26, 6058-6067.	3.2	42
94	Streng zweiphasige weiche und harte Janus-Strukturen - Synthese, Eigenschaften und Anwendungen. Angewandte Chemie, 2014, 126, 5630-5644.	1.6	20
95	Block copolymer/ferroelectric nanoparticle nanocomposites. Nanoscale, 2013, 5, 8695.	2.8	54
96	Functional copolymer brushes composed of a hydrophobic backbone and densely grafted conjugated side chains via a combination of living polymerization with click chemistry. Polymer Chemistry, 2013, 4, 2025.	1.9	30
97	Self-assembly of a conjugated triblock copolymer at the air-water interface. Soft Matter, 2013, 9, 8050.	1.2	11
98	A general and robust strategy for the synthesis of nearly monodisperse colloidal nanocrystals. Nature Nanotechnology, 2013, 8, 426-431.	15.6	362
99	Novel Amphiphilic Multi-Arm, Star-Like Block Copolymers as Unimolecular Micelles. Macromolecules, 2011, 44, 3746-3752.	2.2	181
100	Novel Amphiphilic Multiarm, Starlike Coil-Rod Diblock Copolymers via a Combination of Click Chemistry with Living Polymerization. Macromolecules, 2011, 44, 7176-7183.	2.2	86
101	Organic-Inorganic Nanocomposites: Organic-Inorganic Nanocomposites by Placing Conjugated Polymers in Intimate Contact with Quantum Rods (Adv. Mater. 25/2011). Advanced Materials, 2011, 23, 2843-2843.	11.1	0
102	Innentitelbild: Semiconductor Anisotropic Nanocomposites Obtained by Directly Coupling Conjugated Polymers with Quantum Rods (Angew. Chem. 17/2011). Angewandte Chemie, 2011, 123, 3902-3902.	1.6	0
103	Inside Cover: Semiconductor Anisotropic Nanocomposites Obtained by Directly Coupling Conjugated Polymers with Quantum Rods (Angew. Chem. Int. Ed. 17/2011). Angewandte Chemie - International Edition, 2011, 50, 3818-3818.	7.2	0
104	Synthesis and characterization of perovskite PbTiO <sub>3</sub> nanoparticles with solution processability. Journal of Materials Chemistry, 2010, 20, 5945.	6.7	39
105	Piezoelectric properties of low-temperature sintered Li-modified (Na,K)NbO <sub>3</sub> lead-free ceramics. Applied Physics Letters, 2008, 93, .	1.5	143