

Xinchang Pang

List of Publications by Year in descending order

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105
papers

4,869
citations

94415

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95259

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114
all docs

114
docs citations

114
times ranked

6895
citing authors

#	ARTICLE	IF	CITATIONS
1	A general and robust strategy for the synthesis of nearly monodisperse colloidal nanocrystals. <i>Nature Nanotechnology</i> , 2013, 8, 426-431.	31.5	362
2	All-Solid-State Synaptic Transistor with Ultralow Conductance for Neuromorphic Computing. <i>Advanced Functional Materials</i> , 2018, 28, 1804170.	14.9	335
3	1D nanocrystals with precisely controlled dimensions, compositions, and architectures. <i>Science</i> , 2016, 353, 1268-1272.	12.6	316
4	A Synaptic Transistor based on Quasi-2D Molybdenum Oxide. <i>Advanced Materials</i> , 2017, 29, 1700906.	21.0	304
5	Monodisperse Dual-Functional Upconversion Nanoparticles Enabled Near-Infrared Organolead Halide Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 4280-4284.	13.8	257
6	Mechanically Durable and Highly Stretchable Transistors Employing Carbon Nanotube Semiconductor and Electrodes. <i>Advanced Materials</i> , 2016, 28, 4441-4448.	21.0	234
7	Novel Amphiphilic Multi-Arm, Star-Like Block Copolymers as Unimolecular Micelles. <i>Macromolecules</i> , 2011, 44, 3746-3752.	4.8	181
8	Strictly Biphasic Soft and Hard Janus Structures: Synthesis, Properties, and Applications. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 5524-5538.	13.8	178
9	Graphene-Enabled Superior and Tunable Photomechanical Actuation in Liquid Crystalline Elastomer Nanocomposites. <i>Advanced Materials</i> , 2015, 27, 6376-6381.	21.0	149
10	Piezoelectric properties of low-temperature sintered Li-modified (Na,K)NbO ₃ lead-free ceramics. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	143
11	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.	13.7	111
12	Hairy Uniform Permanently Ligated Hollow Nanoparticles with Precise Dimension Control and Tunable Optical Properties. <i>Journal of the American Chemical Society</i> , 2017, 139, 12956-12967.	13.7	107
13	Atomic-scaled cobalt encapsulated in P,N-doped carbon sheaths over carbon nanotubes for enhanced oxygen reduction electrocatalysis under acidic and alkaline media. <i>Chemical Communications</i> , 2017, 53, 9862-9865.	4.1	87
14	Novel Amphiphilic Multiarm, Starlike Coil-Rod Diblock Copolymers via a Combination of Click Chemistry with Living Polymerization. <i>Macromolecules</i> , 2011, 44, 7176-7183.	4.8	86
15	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.	10.3	85
16	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.	6.7	76
17	Solution-processed electronics for artificial synapses. <i>Materials Horizons</i> , 2021, 8, 447-470.	12.2	74
18	InVO ₄ /AgVO ₃ Nanocomposite as a Direct Z-Scheme Photocatalyst toward Efficient and Selective Visible-Light-Driven CO ₂ Reduction. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 32025-32037.	8.0	73

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19	Monodisperse Dual-Functional Upconversion Nanoparticles Enabled Near-Infrared Organolead Halide Perovskite Solar Cells. <i>Angewandte Chemie</i> , 2016, 128, 4352-4356.	2.0	71
20	Atom Transfer Radical Polymerization Driven by Near-Infrared Light with Recyclable Upconversion Nanoparticles. <i>Macromolecules</i> , 2020, 53, 4678-4684.	4.8	71
21	Precisely Size-Tunable Magnetic/Plasmonic Core/Shell Nanoparticles with Controlled Optical Properties. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 12091-12096.	13.8	69
22	A general route to nanocrystal kebabs periodically assembled on stretched flexible polymer shish. <i>Science Advances</i> , 2015, 1, e1500025.	10.3	69
23	Precisely Size-Tunable Monodisperse Hairy Plasmonic Nanoparticles via Amphiphilic Star-Like Block Copolymers. <i>Small</i> , 2016, 12, 6714-6723.	10.0	68
24	Visible-light-driven photocatalytic degradation of 4-CP and the synergistic reduction of Cr(VI) on one-pot synthesized amorphous Nb ₂ O ₅ nanorods/graphene heterostructured composites. <i>Chemical Engineering Journal</i> , 2018, 353, 100-114.	12.7	60
25	Realizing Efficient Single Organic Molecular White Light-Emitting Diodes from Conformational Isomerization of Quinazoline-Based Emitters. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 14233-14243.	8.0	60
26	Block copolymer/ferroelectric nanoparticle nanocomposites. <i>Nanoscale</i> , 2013, 5, 8695.	5.6	54
27	An Unconventional Route to Monodisperse and Intimately Contacted Semiconducting Organic-Inorganic Nanocomposites. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 4636-4640.	13.8	54
28	Low-Noise Dual-Band Polarimetric Image Sensor Based on 1D Bi ₂ S ₃ Nanowire. <i>Advanced Science</i> , 2021, 8, e2100075.	11.2	48
29	Dual-Protected Metal Halide Perovskite Nanosheets with an Enhanced Set of Stabilities. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 7259-7266.	13.8	45
30	A versatile strategy for uniform hybrid nanoparticles and nanocapsules. <i>Polymer Chemistry</i> , 2015, 6, 5190-5197.	3.9	43
31	Robust Route to Unimolecular Core-Shell and Hollow Polymer Nanoparticles. <i>Chemistry of Materials</i> , 2014, 26, 6058-6067.	6.7	42
32	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.	13.7	41
33	Two-component anomalous Hall effect in a magnetically doped topological insulator. <i>Nature Communications</i> , 2018, 9, 1282.	12.8	40
34	Synthesis and characterization of perovskite PbTiO ₃ nanoparticles with solution processability. <i>Journal of Materials Chemistry</i> , 2010, 20, 5945.	6.7	39
35	Recyclable Oil-Absorption Foams via Secondary Phase Separation. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 13834-13843.	6.7	39
36	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.	4.6	39

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37	Unimolecular micelles composed of inner coil-like blocks and outer rod-like blocks crafted by combination of living polymerization with click chemistry. <i>Polymer Chemistry</i> , 2014, 5, 2747-2755.	3.9	34
38	Unconventional Route to Uniform Hollow Semiconducting Nanoparticles with Tailorable Dimensions, Compositions, Surface Chemistry, and Near-Infrared Absorption. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 12946-12951.	13.8	34
39	Size effect of semiconductor quantum dots as photocatalysts for PET-RAFT polymerization. <i>Polymer Chemistry</i> , 2020, 11, 4961-4967.	3.9	31
40	Functional copolymer brushes composed of a hydrophobic backbone and densely grafted conjugated side chains via a combination of living polymerization with click chemistry. <i>Polymer Chemistry</i> , 2013, 4, 2025.	3.9	30
41	Dual Roles of Amino-Functionalized Silicon Quantum Dots (SiQDs) for Visible-Light-Induced Surface-Initiated PET-RAFT Polymerization on Substrates. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 42161-42168.	8.0	26
42	Organic Templates for Inorganic Nanocrystal Growth. <i>Energy and Environmental Materials</i> , 2019, 2, 38-54.	12.8	21
43	Streng zweiphasige weiche und harte Janus-Strukturen – Synthese, Eigenschaften und Anwendungen. <i>Angewandte Chemie</i> , 2014, 126, 5630-5644.	2.0	20
44	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.	3.9	20
45	Confined Unimolecular Micelles for Precisely Controlled In Situ Synthesis of Stable Ultrasmall Metal Nanocluster Assemblies. <i>Chemistry of Materials</i> , 2021, 33, 5067-5075.	6.7	20
46	Benzo[1,2-b:4,5-b']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 & Interfaces</i> , 2021, 13, 15448-15458.	8.0	18
47	Effect of nitrogen type on carbon dot photocatalysts for visible-light-induced atom transfer radical polymerization. <i>Polymer Chemistry</i> , 2021, 12, 3060-3066.	3.9	17
48	Highly water-dispersed superparamagnetic magnetite colloidal nanocrystal clusters from multifunctional polymeric nanoreactors: synthesis and properties. <i>RSC Advances</i> , 2016, 6, 9429-9435.	3.6	16
49	Visualization of Atom Transfer Radical Polymerization by Aggregation-Induced Emission Technology. <i>Chemistry - an Asian Journal</i> , 2020, 15, 1014-1017.	3.3	15
50	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 & Interfaces</i> , 2022, 14, 21555-21563.	8.0	15
51	Dimensional Optimization for ZnO-Based Mechano-ATRP with Extraordinary Activity. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 4884-4890.	4.6	15
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.	3.3	14
53	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.	2.6	14
54	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.	10.3	14

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55	Facile Fabrication of Transparent and Upconversion Photoluminescent Nanofiber Mats with Tunable Optical Properties. <i>ACS Omega</i> , 2018, 3, 8220-8225.	3.5	13
56	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.	10.3	13
57	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.	2.9	12
58	Self-assembly of a conjugated triblock copolymer at the air-water interface. <i>Soft Matter</i> , 2013, 9, 8050.	2.7	11
59	Wafer-scale single crystals: crystal growth mechanisms, fabrication methods, and functional applications. <i>Journal of Materials Chemistry C</i> , 2021, 9, 7829-7851.	5.5	11
60	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.	2.6	11
61	Facile synthesis of size-tunable superparamagnetic/polymeric core/shell nanoparticles by metal-free atom transfer radical polymerization at ambient temperature. <i>RSC Advances</i> , 2017, 7, 7789-7792.	3.6	10
62	Light and magnetism dual-gated photoinduced electron transfer-reversible addition-fragmentation chain transfer (PET-RAFT) polymerization. <i>RSC Advances</i> , 2020, 10, 6850-6857.	3.6	10
63	Dual-Protected Metal Halide Perovskite Nanosheets with an Enhanced Set of Stabilities. <i>Angewandte Chemie</i> , 2021, 133, 7335-7342.	2.0	10
64	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.	3.1	9
65	From Unimolecular Template to Silver Nanocrystal Clusters: An Effective Strategy to Balance Antibacterial Activity and Cytotoxicity. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 39806-39818.	8.0	9
66	Dual enhancement of carrier generation and migration on Au/g-C ₃ N ₄ photocatalysts for highly-efficient broadband PET-RAFT polymerization. <i>Polymer Chemistry</i> , 2022, 13, 1022-1030.	3.9	9
67	Resistance-switchable conjugated polyrotaxane for flexible high-performance RRAMs. <i>Materials Horizons</i> , 2022, 9, 1526-1535.	12.2	9
68	Unconventional Route to Uniform Hollow Semiconducting Nanoparticles with Tailorable Dimensions, Compositions, Surface Chemistry, and Near-Infrared Absorption. <i>Angewandte Chemie</i> , 2017, 129, 13126-13131.	2.0	8
69	Cascade-Targeting of Charge-Reversal and Disulfide Bonds Shielding for Efficient DOX Delivery of Multistage Sensitive MSNs-COS-SS-CMC. <i>International Journal of Nanomedicine</i> , 2020, Volume 15, 6153-6165.	6.7	8
70	One-pot double in-situ fabrication of transparent semi-aromatic polyamide nanocomposites with upconversion nanoparticles. <i>Composites Communications</i> , 2020, 20, 100361.	6.3	8
71	Layer-by-Layer Printing Strategy for High-Performance Flexible Electronic Devices with Low-Temperature Catalyzed Solution-Processed SiO ₂ . <i>Small Methods</i> , 2021, 5, 2100263.	8.6	8
72	Simple and robust nitroxide-mediated polymerization with oxygen tolerance. <i>Polymer Chemistry</i> , 2021, 12, 7010-7015.	3.9	8

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73	Anthraquinone-Catalyzed TEMPO Reduction to Realize Two-Electron Energy Storage of Poly(TEMPO-methacrylate). <i>ACS Energy Letters</i> , 2022, 7, 1481-1489.	17.4	8
74	Synthesis of amphiphilic star-shaped block copolymers through photo-induced metal free atom transfer radical polymerization. <i>European Polymer Journal</i> , 2020, 126, 109557.	5.4	7
75	Novel tetraphenylethylene (TPE)-functionalized nitroxide/alkoxyamine for nitroxide-mediated homogeneous and heterogeneous polymerizations. <i>Polymer Chemistry</i> , 2021, 12, 526-533.	3.9	7
76	The controlled growth of conjugated polymer-quantum dot nanocomposites via a unimolecular templating strategy. <i>Chemical Communications</i> , 2021, 57, 1250-1253.	4.1	7
77	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.	4.6	6
78	PA1111/BaTiO ₃ nanocomposites with surprisingly enhanced piezoelectricity at low filler content via in-situ compositing process. <i>Composites Science and Technology</i> , 2021, 209, 108796.	7.8	6
79	Water-soluble star-shaped brush-like block copolymers: synthesis and application as multicompartiment nanoreactors for fabrication of quantum dot colloidal nanocrystal clusters. <i>RSC Advances</i> , 2015, 5, 96785-96798.	3.6	5
80	Unconventional Approach to Fabricating a TiO ₂ Nanoring with Precise Dimension Control Based on Starlike Polymeric Nanoreactors. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 3456-3463.	4.6	5
81	An unconventional route to fabricate highly pure Al ₂ O ₃ nanocrystals with tunable surface chemistry based on a semi-aromatic polyamide with pyridine rings as a functional matrix. <i>RSC Advances</i> , 2016, 6, 79263-79267.	3.6	4
82	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.	2.6	4
83	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.	3.9	4
84	Hollow Silica Nanotubes for Space-Confined Synthesis of Noble Metal Nanorods and Nanopeapods. <i>ACS Applied Nano Materials</i> , 2021, 4, 6075-6082.	5.0	4
85	General Route to Colloidal Nanocrystal Clusters with Precise Hierarchical Control via Star-like Nanoreactors. <i>Langmuir</i> , 2021, 37, 10461-10468.	3.5	4
86	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.	9.4	4
87	Star-like polymer click-functionalized with small capping molecules: an initial investigation into properties and improving solubility in liquid crystals. <i>RSC Advances</i> , 2014, 4, 50212-50219.	3.6	3
88	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.	21.0	3
89	Innenbild: Monodisperse Dual-Functional Upconversion Nanoparticles Enabled Near-Infrared Organolead Halide Perovskite Solar Cells (<i>Angew. Chem.</i> 13/2016). <i>Angewandte Chemie</i> , 2016, 128, 4441-4441.	2.0	3
90	Facile Synthesis and Enhanced Aggregation-Induced Circular Dichroism of Novel Chiral Polyamides. <i>ACS Omega</i> , 2017, 2, 4080-4087.	3.5	3

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91	Induction of diffusion and construction of metallurgical interfaces directly between immiscible Mo and Ag by irradiation-induced point defects. <i>RSC Advances</i> , 2017, 7, 53763-53769.	3.6	3
92	Optical Activity of Homochiral Polyamides in Solution and Solid State: Structural Function for Chiral Induction. <i>ACS Omega</i> , 2018, 3, 2463-2469.	3.5	3
93	Preparation of novel optically active polyamide@silica hybrid core-shell nanoparticles and application for enantioselective crystallization. <i>Reactive and Functional Polymers</i> , 2018, 131, 326-332.	4.1	3
94	Inherent Flame-Retardant, Humid Environment Stable and Blue Luminescent Polyamide Elastomer Regulated by Siloxane Moiety. <i>Polymers</i> , 2022, 14, 1919.	4.5	3
95	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.	4.4	2
96	Unconventional Strategy to Anatase TiO ₂ Nanocrystals with Tunable Surface Chemistry via Liquid Crystalline Polyamides as a Functional Matrix. <i>Journal of Physical Chemistry C</i> , 2017, 121, 27111-27117.	3.1	1
97	Anomalous Hall effect in a magnetically extended topological insulator heterostructure. <i>Physical Review Materials</i> , 2020, 4, .	2.4	1
98	In situ monitoring of photo-PISA via aggregation-induced emission (AIE) technology. <i>Journal of Polymer Research</i> , 2022, 29, 1.	2.4	1
99	Organic-Inorganic Nanocomposites: Organic~Inorganic Nanocomposites by Placing Conjugated Polymers in Intimate Contact with Quantum Rods (<i>Adv. Mater.</i> 25/2011). <i>Advanced Materials</i> , 2011, 23, 2843-2843.	21.0	0
100	Innentitelbild: Semiconductor Anisotropic Nanocomposites Obtained by Directly Coupling Conjugated Polymers with Quantum Rods (<i>Angew. Chem.</i> 17/2011). <i>Angewandte Chemie</i> , 2011, 123, 3902-3902.	2.0	0
101	Inside Cover: Semiconductor Anisotropic Nanocomposites Obtained by Directly Coupling Conjugated Polymers with Quantum Rods (<i>Angew. Chem. Int. Ed.</i> 17/2011). <i>Angewandte Chemie - International Edition</i> , 2011, 50, 3818-3818.	13.8	0
102	Innenr~4cktitelbild: 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.	2.0	0
103	Innenr~4cktitelbild: Unconventional Route to Uniform Hollow Semiconducting Nanoparticles with Tailorable Dimensions, Compositions, Surface Chemistry, and Near~Infrared Absorption (<i>Angew. Chem.</i>) Tj ETQq12r0.7843 b4 rgBT /		
104	A Versatile Strategy for Unimolecular Micelle-Derived Hollow Polymer Nanoparticles as General Nanoreactors. <i>Langmuir</i> , 2020, 36, 6690-6697.	3.5	0
105	Layer~By~Layer Printing Strategy for High~Performance Flexible Electronic Devices with Low~Temperature Catalyzed Solution~Processed SiO ₂ (<i>Small Methods</i> 8/2021). <i>Small Methods</i> , 2021, 5, 2170038.	8.6	0