

Weian Zhang

List of Publications by Year in descending order

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112
papers

4,411
citations

81900

39
h-index

128289

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all docs

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docs citations

118
times ranked

5132
citing authors

#	ARTICLE	IF	CITATIONS
1	Architecture, self-assembly and properties of well-defined hybrid polymers based on polyhedral oligomeric silsesquioxane (POSS). <i>Progress in Polymer Science</i> , 2013, 38, 1121-1162.	24.7	352
2	Recent advances of multi-dimensional porphyrin-based functional materials in photodynamic therapy. <i>Coordination Chemistry Reviews</i> , 2020, 420, 213410.	18.8	191
3	Synthesis via RAFT Polymerization of Tadpole-Shaped Organic/Inorganic Hybrid Poly(acrylic acid) Containing Polyhedral Oligomeric Silsesquioxane (POSS) and Their Self-assembly in Water. <i>Macromolecules</i> , 2009, 42, 2563-2569.	4.8	168
4	A hybrid erbium(III)-bacteriochlorin near-infrared probe for multiplexed biomedical imaging. <i>Nature Materials</i> , 2021, 20, 1571-1578.	27.5	138
5	A "Click Chemistry" Approach to Linear and Star-Shaped Telechelic POSS-Containing Hybrid Polymers. <i>Macromolecules</i> , 2010, 43, 3148-3152.	4.8	119
6	Synthesis, self-assembly and applications of functional polymers based on porphyrins. <i>Progress in Polymer Science</i> , 2019, 95, 65-117.	24.7	117
7	Self-assembly and disassembly of a redox-responsive ferrocene-containing amphiphilic block copolymer for controlled release. <i>Polymer Chemistry</i> , 2015, 6, 1817-1829.	3.9	112
8	Conformational Transition of Tethered Poly(N-isopropylacrylamide) Chains in Coronas of Micelles and Vesicles. <i>Macromolecules</i> , 2005, 38, 909-914.	4.8	100
9	Enhancing the Efficacy of Photodynamic Therapy through a Porphyrin/POSS Alternating Copolymer. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16354-16358.	13.8	94
10	An oxygen self-sufficient NIR-responsive nanosystem for enhanced PDT and chemotherapy against hypoxic tumors. <i>Chemical Science</i> , 2019, 10, 5766-5772.	7.4	91
11	<i>In situ</i> bone regeneration enabled by a biodegradable hybrid double-network hydrogel. <i>Biomaterials Science</i> , 2019, 7, 3266-3276.	5.4	85
12	Synthesis and self-assembly of tadpole-shaped organic/inorganic hybrid poly(N-isopropylacrylamide) containing polyhedral oligomeric silsesquioxane via RAFT polymerization. <i>Journal of Polymer Science Part A</i> , 2008, 46, 7049-7061.	2.3	77
13	Water-Soluble Polymers with Appending Porphyrins as Bioinspired Catalysts for the Hydrogen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 15844-15848.	13.8	76
14	Hyaluronic acid conjugated polydopamine functionalized mesoporous silica nanoparticles for synergistic targeted chemo-photothermal therapy. <i>Nanoscale</i> , 2019, 11, 11012-11024.	5.6	74
15	Mussel-inspired injectable hydrogel and its counterpart for actuating proliferation and neuronal differentiation of retinal progenitor cells. <i>Biomaterials</i> , 2019, 194, 57-72.	11.4	68
16	A mitochondria-targeting supramolecular photosensitizer based on pillar[5]arene for photodynamic therapy. <i>Chemical Communications</i> , 2017, 53, 3126-3129.	4.1	66
17	Polyhedral Oligomeric Silsesquioxane-Incorporated Gelatin Hydrogel Promotes Angiogenesis during Vascularized Bone Regeneration. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 22410-22425.	8.0	64
18	Porphyrin-containing amphiphilic block copolymers for photodynamic therapy. <i>Polymer Chemistry</i> , 2015, 6, 2945-2954.	3.9	62

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19	Self-Amplified Photodynamic Therapy through the O_2 -Mediated Internalization of Photosensitizers from a Ppa-Bearing Block Copolymer. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 3711-3717.	13.8	62
20	GSH-Activatable NIR Nanoplatfom with Mitochondria Targeting for Enhancing Tumor-Specific Therapy. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 44961-44969.	8.0	61
21	Light-Driven Reversible Transformation between Self-Organized Simple Cubic Lattice and Helical Superstructure Enabled by a Molecular Switch Functionalized Nanocage. <i>Advanced Materials</i> , 2018, 30, e1800237.	21.0	57
22	Redox-responsive supramolecular amphiphiles based on a pillar[5]arene for enhanced photodynamic therapy. <i>Polymer Chemistry</i> , 2016, 7, 3268-3276.	3.9	56
23	Acid-Triggered Nanoexpansion Polymeric Micelles for Enhanced Photodynamic Therapy. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 33697-33705.	8.0	54
24	A PEGylated colorimetric and turn-on fluorescent sensor based on BODIPY for Hg(II) detection in water. <i>Polymer Chemistry</i> , 2015, 6, 4279-4289.	3.9	50
25	Recent advances in organic-inorganic well-defined hybrid polymers using controlled living radical polymerization techniques. <i>Polymer Chemistry</i> , 2016, 7, 3950-3976.	3.9	49
26	Far-Red Light-Induced Reversible Addition-Fragmentation Chain Transfer Polymerization Using a Man-Made Bacteriochlorin. <i>ACS Macro Letters</i> , 2019, 8, 616-622.	4.8	48
27	Fluorinated-functionalized hyaluronic acid nanoparticles for enhanced photodynamic therapy of ocular choroidal melanoma by ameliorating hypoxia. <i>Carbohydrate Polymers</i> , 2020, 237, 116119.	10.2	47
28	Redox-responsive supramolecular amphiphiles constructed via host-guest interactions for photodynamic therapy. <i>Biomaterials Science</i> , 2015, 3, 1218-1227.	5.4	45
29	Construction of a pH-responsive, ultralow-dose triptolide nanomedicine for safe rheumatoid arthritis therapy. <i>Acta Biomaterialia</i> , 2021, 121, 541-553.	8.3	45
30	Enhancing Photochemical Internalization of DOX through a Porphyrin-based Amphiphilic Block Copolymer. <i>Biomacromolecules</i> , 2017, 18, 3992-4001.	5.4	43
31	Hollow Polymeric Capsules from POSS-Based Block Copolymer for Photodynamic Therapy. <i>Macromolecules</i> , 2016, 49, 8440-8448.	4.8	42
32	NIR-Activated Polymeric Nanoplatfom with Upper Critical Solution Temperature for Image-Guided Synergistic Photothermal Therapy and Chemotherapy. <i>Biomacromolecules</i> , 2019, 20, 2338-2349.	5.4	42
33	Janus macromolecular brushes for synergistic cascade-amplified photodynamic therapy and enhanced chemotherapy. <i>Acta Biomaterialia</i> , 2020, 101, 495-506.	8.3	42
34	An Antifouling and Antimicrobial Zwitterionic Nanocomposite Hydrogel Dressing for Enhanced Wound Healing. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 1621-1630.	5.2	42
35	Photocontrolled reversible supramolecular assemblies of a diblock azo-copolymer based on β -cyclodextrin-Azo host-guest inclusion complexation. <i>Polymer Chemistry</i> , 2013, 4, 2151.	3.9	41
36	Sensitization of Hypoxic Tumor to Photodynamic Therapy via Oxygen Self-Supply of Fluorinated Photosensitizers. <i>Biomacromolecules</i> , 2019, 20, 4563-4573.	5.4	41

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37	Enhancing the efficacy of photodynamic therapy (PDT) via water-soluble pillar[5]arene-based supramolecular complexes. <i>Chemical Communications</i> , 2018, 54, 7629-7632.	4.1	40
38	Supramolecular Zinc Phthalocyanine~Perylene Bisimide Triad: Synthesis and Photophysical Properties. <i>Journal of Physical Chemistry C</i> , 2007, 111, 16096-16099.	3.1	39
39	Photocontrollable release and enhancement of photodynamic therapy based on host~guest supramolecular amphiphiles. <i>Journal of Materials Chemistry B</i> , 2015, 3, 7417-7426.	5.8	39
40	One-pot synthesis of POSS-containing alternating copolymers by RAFT polymerization and their microphase-separated nanostructures. <i>Polymer Chemistry</i> , 2014, 5, 4534.	3.9	37
41	NIR-Activated OFF~ON Photodynamic Therapy by a Hybrid Nanoplatfom with Upper Critical Solution Temperature Block Copolymers and Gold Nanorods. <i>Biomacromolecules</i> , 2019, 20, 3873-3883.	5.4	37
42	Enhanced proliferation and differentiation of retinal progenitor cells through a self-healing injectable hydrogel. <i>Biomaterials Science</i> , 2019, 7, 2335-2347.	5.4	36
43	Reconstructing the intracellular pH microenvironment for enhancing photodynamic therapy. <i>Materials Horizons</i> , 2020, 7, 1180-1185.	12.2	36
44	In Situ Catalytic Reaction for Solving the Aggregation of Hydrophobic Photosensitizers in Tumor. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 5624-5632.	8.0	35
45	Pillar[5]arene-Based Switched Supramolecular Photosensitizer for Self-Amplified and pH-Activated Photodynamic Therapy. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 41038-41046.	8.0	35
46	Photodynamic therapy of oligoethylene glycol dendronized reduction-sensitive porphyrins. <i>Journal of Materials Chemistry B</i> , 2015, 3, 3062-3071.	5.8	34
47	Synthesis and self-assembly of stimuli-responsive amphiphilic block copolymers based on polyhedral oligomeric silsesquioxane. <i>Journal of Polymer Science Part A</i> , 2014, 52, 2669-2683.	2.3	33
48	Long-Term Bone Regeneration Enabled by a Polyhedral Oligomeric Silsesquioxane (POSS)-Enhanced Biodegradable Hydrogel. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 4612-4623.	5.2	33
49	NIR-Triggered Multifunctional and Degradable Nanoplatfom Based on an ROS-Sensitive Block Copolymer for Imaging-Guided Chemo-Phototherapy. <i>Biomacromolecules</i> , 2019, 20, 4218-4229.	5.4	33
50	Conjugated BODIPY Oligomers with Controllable Near-Infrared Absorptions as Promising Phototheranostic Agents through Excited-State Intramolecular Rotations. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 47208-47219.	8.0	33
51	Linear Alternating Supramolecular Photosensitizer for Enhanced Photodynamic Therapy. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 32352-32359.	8.0	33
52	A super-stretchable, self-healing and injectable supramolecular hydrogel constructed by a host~guest crosslinker. <i>Biomaterials Science</i> , 2020, 8, 3359-3369.	5.4	32
53	An ultra-stable bio-inspired bacteriochlorin analogue for hypoxia-tolerant photodynamic therapy. <i>Chemical Science</i> , 2021, 12, 1295-1301.	7.4	32
54	Mitochondria-targeting and ROS-sensitive smart nanoscale supramolecular organic framework for combinational amplified photodynamic therapy and chemotherapy. <i>Acta Biomaterialia</i> , 2021, 130, 447-459.	8.3	32

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55	Unimolecular micelles from POSS-based star-shaped block copolymers for photodynamic therapy. <i>Polymer</i> , 2017, 118, 268-279.	3.8	31
56	Sustained protein therapeutics enabled by self-healing nanocomposite hydrogels for non-invasive bone regeneration. <i>Biomaterials Science</i> , 2020, 8, 682-693.	5.4	30
57	Intracellular GSH-activated galactoside photosensitizers for targeted photodynamic therapy and chemotherapy. <i>Biomaterials Science</i> , 2017, 5, 274-284.	5.4	29
58	A well-defined alternating copolymer based on a salicylaldehyde Schiff base for highly sensitive zinc(II) detection and pH sensing in aqueous solution. <i>Polymer Chemistry</i> , 2015, 6, 1127-1136.	3.9	28
59	Pillar[5]arene-Based Acid-Triggered Supramolecular Porphyrin Photosensitizer for Combating Bacterial Infections and Biofilm Dispersion. <i>Advanced Healthcare Materials</i> , 2022, 11, e2102015.	7.6	26
60	Synthesis of Organic/Inorganic Polyhedral Oligomeric Silsesquioxane-Containing Block Copolymers via Reversible Addition-Fragmentation Chain Transfer Polymerization and Their Self-Assembly in Aqueous Solution. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 10673-10680.	3.7	25
61	Multistep Consolidated Phototherapy Mediated by a NIR-Activated Photosensitizer. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 33628-33636.	8.0	25
62	A Redox Stimulation-Activated Amphiphile for Enhanced Photodynamic Therapy. <i>Biomacromolecules</i> , 2019, 20, 2796-2808.	5.4	25
63	Enhanced photodynamic therapy based on an amphiphilic branched copolymer with pendant vinyl groups for simultaneous GSH depletion and Ce6 release. <i>Journal of Materials Chemistry B</i> , 2020, 8, 478-483.	5.8	25
64	An acid-triggered porphyrin-based block copolymer for enhanced photodynamic antibacterial efficacy. <i>Science China Chemistry</i> , 2021, 64, 459-466.	8.2	25
65	Construction of reduction-responsive photosensitizers based on amphiphilic block copolymers and their application for photodynamic therapy. <i>Polymer</i> , 2016, 97, 323-334.	3.8	24
66	Orthogonal Approach to Construct Cell-Like Vesicles via Pillar[5]arene-Based Amphiphilic Supramolecular Polymers. <i>ACS Macro Letters</i> , 2016, 5, 112-117.	4.8	24
67	Precise Self-Assembly and Controlled Catalysis of Thermo-responsive Core-Satellite Multicomponent Hybrid Nanoparticles. <i>Langmuir</i> , 2019, 35, 266-275.	3.5	24
68	A supramolecular approach for fabrication of photo-responsive block-controllable supramolecular polymers. <i>Polymer Chemistry</i> , 2014, 5, 5453.	3.9	23
69	Oxygen-Carrying and Antibacterial Fluorinated Nano-Hydroxyapatite Incorporated Hydrogels for Enhanced Bone Regeneration. <i>Advanced Healthcare Materials</i> , 2022, 11, e2102540.	7.6	23
70	One-pot synthesis of well-defined amphiphilic alternating copolymer brushes based on POSS and their self-assembly in aqueous solution. <i>RSC Advances</i> , 2015, 5, 21580-21587.	3.6	21
71	Regulating the bacterial oxygen microenvironment via a perfluorocarbon-conjugated bacteriochlorin for enhanced photodynamic antibacterial efficacy. <i>Acta Biomaterialia</i> , 2022, 142, 242-252.	8.3	20
72	NIR-Triggered OFF/ON-Photodynamic Therapy through a Upper Critical Solution Temperature Block Copolymer. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 37121-37129.	8.0	19

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73	Encapsulated feeder cells within alginate beads for ex vivo expansion of cord blood-derived CD34 ⁺ cells. <i>Biomaterials Science</i> , 2016, 4, 1441-1453.	5.4	18
74	Synthesis, characterization and chondrocyte culture of polyhedral oligomeric silsesquioxane (POSS)-containing hybrid hydrogels. <i>RSC Advances</i> , 2016, 6, 23471-23478.	3.6	18
75	POSS-enhanced thermosensitive hybrid hydrogels for cell adhesion and detachment. <i>RSC Advances</i> , 2018, 8, 13813-13819.	3.6	18
76	Enhanced photodynamic therapy through supramolecular photosensitizers with an adamantyl-functionalized porphyrin and a cyclodextrin dimer. <i>Chemical Communications</i> , 2020, 56, 11134-11137.	4.1	17
77	Zeolitic Imidazolate Framework Platform for Combinational Starvation Therapy and Oxygen Self-Sufficient Photodynamic Therapy against a Hypoxia Tumor. <i>ACS Applied Bio Materials</i> , 2021, 4, 4413-4421.	4.6	17
78	Ultrasensitive redox-responsive porphyrin-based polymeric nanoparticles for enhanced photodynamic therapy. <i>European Polymer Journal</i> , 2019, 110, 344-354.	5.4	16
79	Inhibiting Radiative Transition-Mediated Multifunctional Polymeric Nanoplatforms for Highly Efficient Tumor Phototherapeutics. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 44523-44533.	8.0	15
80	Hydrophilic polyphosphoester-conjugated fluorinated chlorin as an entirely biodegradable nano-photosensitizer for reliable and efficient photodynamic therapy. <i>Chemical Communications</i> , 2020, 56, 2415-2418.	4.1	15
81	Synthesis of porphyrinic polystyrenes and their self-assembly with pristine fullerene (C ₆₀). <i>Materials Letters</i> , 2013, 91, 71-74.	2.6	14
82	Morphology-Controlled Self-Assembly of an Organic/Inorganic Hybrid Porphyrin Derivative Containing Polyhedral Oligomeric Silsesquioxane (POSS). <i>Chemistry - A European Journal</i> , 2015, 21, 5540-5547.	3.3	14
83	Fabrication of a Dual-Stimuli-Responsive Supramolecular Micelle from a Pillar[5]arene-Based Supramolecular Diblock Copolymer for Photodynamic Therapy. <i>Macromolecular Rapid Communications</i> , 2019, 40, 1900240.	3.9	14
84	Doxorubicin-loaded redox-responsive amphiphilic dendritic porphyrin conjugates for chemotherapy and photodynamic therapy. <i>RSC Advances</i> , 2016, 6, 57552-57562.	3.6	13
85	Sustained release of stem cell factor in a double network hydrogel for ex vivo culture of cord blood-derived CD ⁺ 34 ⁺ cells. <i>Cell Proliferation</i> , 2018, 51, e12407.	5.3	12
86	Porphyrin-functionalized coordination star polymers and their potential applications in photodynamic therapy. <i>Polymer Chemistry</i> , 2019, 10, 6116-6121.	3.9	12
87	Continuous fibrils from the self-assembly of monochelic polymeric porphyrin and PEGylated fullerene. <i>RSC Advances</i> , 2013, 3, 9206.	3.6	11
88	A Giant Capsule from the Self-Assembly of a Penta-Telechelic Hybrid Poly(acrylic acid) Based on Polyhedral Oligomeric Silsesquioxane. <i>Macromolecular Chemistry and Physics</i> , 2014, 215, 900-905.	2.2	11
89	Biomimetic Macroporous PCL Scaffolds for Ex Vivo Expansion of Cord Blood-Derived CD34 ⁺ Cells with Feeder Cells Support. <i>Macromolecular Bioscience</i> , 2017, 17, 1700054.	4.1	11
90	Promoted Proliferation of Hematopoietic Stem Cells Enabled by a Hyaluronic Acid/Carbon Nanotubes Antioxidant Hydrogel. <i>Macromolecular Materials and Engineering</i> , 2019, 304, 1800630.	3.6	11

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91	Self-Enhanced Photodynamic Therapy through the $1O_2$ -Mediated Internalization of Photosensitizers from a Ppaa-Bearing Block Copolymer. <i>Angewandte Chemie</i> , 2020, 132, 3740-3746.	2.0	11
92	Morphology controlled supramolecular assemblies via complexation between (5,10,15,20-tetrakisphenyl-porphine) zinc and 4,4'-bipyridine: from nanospheres to microrings. <i>RSC Advances</i> , 2014, 4, 61378-61382.	3.6	10
93	Synthesis of POSS-functionalized liquid crystalline block copolymers <i>via</i> RAFT polymerization for stabilizing blue phase helical soft superstructures. <i>Polymer Chemistry</i> , 2018, 9, 2101-2108.	3.9	10
94	Enhancing the Efficacy of Photodynamic Therapy through a Porphyrin/POSS Alternating Copolymer. <i>Angewandte Chemie</i> , 2018, 130, 16592-16596.	2.0	10
95	NIR-absorbing superoxide radical and hyperthermia photogenerator via twisted donor-acceptor-donor molecular rotation for hypoxic tumor eradication. <i>Science China Materials</i> , 2021, 64, 3101.	6.3	9
96	A hierarchical supramolecular nanozyme platform for programming tumor-specific PDT and catalytic therapy. <i>Chemical Engineering Journal</i> , 2022, 444, 136164.	12.7	9
97	An acid-triggered BODIPY-based photosensitizer for enhanced photodynamic antibacterial efficacy. <i>Biomaterials Science</i> , 2022, 10, 4235-4242.	5.4	9
98	Light-controllable toxicity recovery from selenium-based amphiphiles. <i>Chemical Communications</i> , 2016, 52, 14208-14211.	4.1	8
99	Boosting cancer therapy efficiency <i>via</i> photoinduced radical production. <i>Chemical Science</i> , 2021, 12, 9500-9505.	7.4	8
100	Synthesis and characterization of new biodegradable comb-dendritic triblock copolymers. <i>Polymer International</i> , 2012, 61, 1447-1455.	3.1	7
101	Construction of Layered $B_{3N_{3}}$ -Doped Graphene Sheets from an Acetylenic Compound Containing $B_{3N_{3}}$ by a Semisynthetic Strategy. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 33245-33253.	8.0	7
102	Photo-controlled RAFT polymerization mediated by organic/inorganic hybrid photoredox catalysts: enhanced catalytic efficiency. <i>Polymer Chemistry</i> , 2020, 11, 3188-3194.	3.9	7
103	A hyaluronic acid/graphene oxide hydrogel for enhanced ex vivo expansion of cord blood-derived CD34+ cells. <i>Materials Letters</i> , 2017, 205, 253-256.	2.6	6
104	Combating Multidrug Resistance through an NIR-Triggered Cyanine-Containing Amphiphilic Block Copolymer. <i>ACS Applied Bio Materials</i> , 2019, 2, 1862-1874.	4.6	6
105	Photocontrollable Supramolecular Self-Assembly of a Porphyrin Derivative that Contains a Polyhedral Oligomeric Silsesquioxane (POSS). <i>Asian Journal of Organic Chemistry</i> , 2017, 6, 1034-1042.	2.7	5
106	Stable soft cubic superstructure enabled by hydrogen-bond complex functionalized polymer/liquid crystal system. <i>Journal of Materials Chemistry C</i> , 2019, 7, 3952-3957.	5.5	5
107	Modulation of the lifespan of <i>C. elegans</i> by the controlled release of nitric oxide. <i>Chemical Science</i> , 2020, 11, 8785-8792.	7.4	5
108	Single-wavelength phototheranostics for colon cancer <i>via</i> the thiolytic reaction. <i>Nanoscale</i> , 2020, 12, 12165-12171.	5.6	5

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109	A carboxylatopillar[5]arene-based pH-triggering supramolecular photosensitizer for enhanced photodynamic antibacterial efficacy. <i>Chemical Communications</i> , 2022, , .	4.1	5
110	Water-soluble hyperbranched polyglycerol photosensitizer for enhanced photodynamic therapy. <i>Polymer Chemistry</i> , 2020, 11, 3913-3921.	3.9	3
111	A multifunctional platform with metallacycle-based star polymers and gold nanorods for combinational photochemotherapy. <i>Materials Today Advances</i> , 2022, 14, 100229.	5.2	3
112	Adaptive Materials: Light-Driven Reversible Transformation between Self-Organized Simple Cubic Lattice and Helical Superstructure Enabled by a Molecular Switch Functionalized Nanocage (Adv.) <i>Tj ETQq0 0 0 rgBT10 Overlock 10 Tf 50</i>		