

Bingtao Tang

List of Publications by Year in descending order

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107
papers

6,577
citations

61984

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h-index

66911

78
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111
all docs

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docs citations

111
times ranked

4348
citing authors

#	ARTICLE	IF	CITATIONS
1	Polysulfide nanoparticles-reduced graphene oxide composite aerogel for efficient solar-driven water purification. <i>Green Energy and Environment</i> , 2023, 8, 267-274.	8.7	15
2	Novel designed core-shell nanofibers constituted by single element-doped BaTiO ₃ for high-energy-density polymer nanocomposites. <i>Chemical Engineering Journal</i> , 2022, 428, 131046.	12.7	32
3	Properties of Stable Aqueous Nanofluids Composed of Copper Nanoaggregates for Enhancing Heat Transfer. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 1596-1605.	3.7	4
4	Multicolor Invisible Patterns Encrypted in Double-Inverse Opal Films Based on Thermally Induced Structural Deformation. <i>Physica Status Solidi - Rapid Research Letters</i> , 2022, 16, .	2.4	2
5	Water rewriteable double-inverse opal photonic crystal films with ultrafast response time and robust writing capability. <i>Chemical Engineering Journal</i> , 2022, 439, 135761.	12.7	25
6	Bioinspired Polypeptide Photonic Films with Tunable Structural Color. <i>Journal of the American Chemical Society</i> , 2022, 144, 7610-7615.	13.7	32
7	Phase change composites with thermal-formability and photothermal storage property for high flux crude oil transmission. <i>AIChE Journal</i> , 2022, 68, .	3.6	2
8	Shape-stabilization micromechanisms of form-stable phase change materials-A review. <i>Composites Part A: Applied Science and Manufacturing</i> , 2022, 160, 107047.	7.6	32
9	Rational Design of Biomass-Derived Composite Aerogels for Solar-Driven Seawater Desalination and Sewage Treatment. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 9763-9773.	3.7	10
10	Flexible thermoelectric device with excellent durability towards self-powered light intensity detection. <i>Composites Science and Technology</i> , 2022, 227, 109616.	7.8	7
11	2D filler-reinforced polymer nanocomposite dielectrics for high-k dielectric and energy storage applications. <i>Energy Storage Materials</i> , 2021, 34, 260-281.	18.0	93
12	Mechanical nondiscoloring and antistretching photonic crystal films based on Zn ²⁺ coordination and hydroxypropyl methylcellulose. <i>Journal of Applied Polymer Science</i> , 2021, 138, 49916.	2.6	4
13	Facile fabrication of encryption composite materials with trilayer quasi-amorphous heterostructure. <i>Science China Materials</i> , 2021, 64, 909-919.	6.3	10
14	Three-dimensionally ordered macroporous BaTiO ₃ framework-reinforced polymer composites with improved dielectric properties. <i>SN Applied Sciences</i> , 2021, 3, 1.	2.9	2
15	Nano/microstructured materials for solar-driven interfacial evaporators towards water purification. <i>Journal of Materials Chemistry A</i> , 2021, 9, 13746-13769.	10.3	31
16	Lotus Seedpod Inspiration: Particle-Nested Double-Inverse Opal Films with Fast and Reversible Structural Color Switching for Information Security. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 26384-26393.	8.0	26
17	Bar-coating programmable mechanochromic bilayer PDMS film with angle-dependent and angle-independent structural colors. <i>Dyes and Pigments</i> , 2021, 189, 109264.	3.7	15
18	Rational design of nanomaterials for high energy density dielectric capacitors via electrospinning. <i>Energy Storage Materials</i> , 2021, 37, 530-555.	18.0	39

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19	Bioinspired quasi-amorphous structural color materials toward architectural designs. <i>Cell Reports Physical Science</i> , 2021, 2, 100499.	5.6	12
20	Self-supporting structural color films with excellent stability and flexibility through hot-press assisted assembly. <i>Dyes and Pigments</i> , 2021, 195, 109742.	3.7	12
21	Intelligent light-driven flexible solar thermoelectric system. <i>Chemical Engineering Journal</i> , 2021, 423, 130260.	12.7	14
22	Fast water-response double-inverse opal films with brilliant structural color. <i>Chemical Engineering Journal</i> , 2021, 426, 131213.	12.7	33
23	Phase change materials with Fe ₃ O ₄ /GO three-dimensional network structure for acoustic-thermal energy conversion and management. <i>Chemical Engineering Journal</i> , 2021, 426, 130789.	12.7	21
24	Copolymer-Based Photonic Crystal Sensor for Discriminative Detection of Liquid Benzene, Toluene, Ethylbenzene, and Xylene. <i>ACS Applied Polymer Materials</i> , 2020, 2, 2-11.	4.4	29
25	Clean synthesis of disperse azo dyes based on peculiar stable 2,6-dibromo-4-nitrophenyl diazonium sulfate. <i>Dyes and Pigments</i> , 2020, 173, 107920.	3.7	14
26	Form-Stable Phase-Change Composites Supported by a Biomass-Derived Carbon Scaffold with Multiple Energy Conversion Abilities. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 1393-1401.	3.7	62
27	Retroreflection and Wettability Controlled Smart Indicator Based on Responsive Bilayer Photonic Crystals for Traffic Warning. <i>Advanced Optical Materials</i> , 2020, 8, 2001367.	7.3	17
28	Transforming waste cigarette filters into 3D carbon scaffolds for form-stable and energy conversion phase change materials. <i>Sustainable Energy and Fuels</i> , 2020, 4, 4285-4292.	4.9	17
29	Robust, Portable, and Specific Water-Response Silk Film with Noniridescent Pattern Encryption for Information Security. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 56413-56423.	8.0	23
30	Thermal Responsive Photonic Crystal Achieved through the Control of Light Path Guided by Phase Transition. <i>Small</i> , 2020, 16, e2002319.	10.0	69
31	Novel network structural PEG/PAA/SiO ₂ composite phase change materials with strong shape stability for storing thermal energy. <i>Solar Energy Materials and Solar Cells</i> , 2020, 216, 110678.	6.2	34
32	Induced dipole force driven PEG/PPEGMA form-stable phase change energy storage materials with high latent heat. <i>Chemical Engineering Journal</i> , 2020, 390, 124618.	12.7	72
33	Rapid fabrication of vivid noniridescent structural colors on fabrics with robust structural stability by screen printing. <i>Dyes and Pigments</i> , 2020, 176, 108226.	3.7	44
34	Bilayer Heterostructure Photonic Crystal Composed of Hollow Silica and Silica Sphere Arrays for Information Encryption. <i>Langmuir</i> , 2020, 36, 1379-1385.	3.5	33
35	Efficient photothermal conversion of Fe ₂ O ₃ /RGO guided from ultrafast quenching effect of photoexcited state. <i>AIChE Journal</i> , 2020, 66, e16975.	3.6	25
36	Novel bio-based phase change materials with high enthalpy for thermal energy storage. <i>Applied Energy</i> , 2020, 268, 114979.	10.1	47

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37	New Encryption Strategy of Photonic Crystals with Bilayer Inverse Heterostructure Guided from Transparency Response. <i>Advanced Functional Materials</i> , 2019, 29, 1903743.	14.9	85
38	Electromagnetic and solar energy conversion and storage based on Fe ₃ O ₄ -functionalised graphene/phase change material nanocomposites. <i>Energy Conversion and Management</i> , 2019, 196, 1299-1305.	9.2	90
39	Different Structural Colors or Patterns on the Front and Back Sides of a Multilayer Photonic Structure. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 27210-27215.	8.0	35
40	A flexible and robust dual-network supramolecular elastic film with solvent resistance and brilliant structural colors. <i>New Journal of Chemistry</i> , 2019, 43, 11517-11523.	2.8	6
41	Encoding and Decoding of Invisible Complex Information in a Dual-Response Bilayer Photonic Crystal with Tunable Wettability. <i>Advanced Functional Materials</i> , 2019, 29, 1906799.	14.9	96
42	Thermal-guided interfacial confinement to fabricate flexible structural color composites for durable applications. <i>Journal of Materials Chemistry C</i> , 2019, 7, 11258-11264.	5.5	15
43	PEG/3D graphene oxide network form-stable phase change materials with ultrahigh filler content. <i>Journal of Materials Chemistry A</i> , 2019, 7, 21371-21377.	10.3	90
44	Phase change materials for electron-triggered energy conversion and storage: a review. <i>Journal of Materials Chemistry A</i> , 2019, 7, 22218-22228.	10.3	92
45	Thermal-Responsive Photonic Crystal with Function of Color Switch Based on Thermochromic System. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 39125-39131.	8.0	70
46	Fe ³⁺ -doped SnO ₂ inverse opal with high structural color saturation. <i>Journal of Materials Science</i> , 2019, 54, 10609-10619.	3.7	7
47	Excellent Temperature-Control Based on Reversible Thermochromic Materials for Light-Driven Phase Change Materials System. <i>Molecules</i> , 2019, 24, 1623.	3.8	15
48	Hollow silica opals/cellulose acetate nanocomposite films with structural colors for anti-counterfeiting of banknotes. <i>Journal of Materials Chemistry C</i> , 2019, 7, 7411-7417.	5.5	44
49	MXene Ti ₃ C ₂ T _x for phase change composite with superior photothermal storage capability. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14319-14327.	10.3	235
50	Polysulfide Trapping in Carbon Nanofiber Cloth/S Cathode with a Bifunctional Separator for High-Performance Li-S Batteries. <i>ChemSusChem</i> , 2019, 12, 2447-2456.	6.8	11
51	An intelligent light-driven thermoelectric conversion system through the thermosensitive phase transition of vanadium dioxide. <i>Journal of Materials Chemistry A</i> , 2019, 7, 8521-8526.	10.3	15
52	Rapid Fabrication of Noniridescent Structural Color Coatings with High Color Visibility, Good Structural Stability, and Self-Healing Properties. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 13022-13028.	8.0	77
53	Polyacrylic Acid-Based Coordination Supramolecular Elastomer with High Strength, Excellent Fatigue-Resistance, and Self-Recovery Properties. <i>Macromolecular Chemistry and Physics</i> , 2019, 220, 1800571.	2.2	8
54	A two-step approach for size controlled preparation of monodisperse polysaccharide-based nanospheres. <i>Materials Research Express</i> , 2019, 6, 055013.	1.6	1

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55	Structural Color Circulation in a Bilayer Photonic Crystal by Increasing the Incident Angle. ACS Applied Materials & Interfaces, 2019, 11, 10171-10177.	8.0	73
56	Recent advances in shuttle effect inhibition for lithium sulfur batteries. Energy Storage Materials, 2019, 23, 707-732.	18.0	249
57	A novel flexible phase change composite with electro-driven shape memory, energy conversion/storage and motion sensing properties. Journal of Materials Chemistry A, 2019, 7, 26385-26392.	10.3	91
58	Facile synthesis of novel disperse azo dyes with aromatic hydroxyl group. Dyes and Pigments, 2019, 160, 524-529.	3.7	43
59	Flexible, self-standing and patternable P(MMA-BA)/TiO ₂ photonic crystals with tunable and bright structural colors. Dyes and Pigments, 2019, 160, 740-746.	3.7	14
60	Novel strategies and supporting materials applied to shape-stabilize organic phase change materials for thermal energy storage—A review. Applied Energy, 2019, 235, 846-873.	10.1	575
61	Ag-graphene/PEG composite phase change materials for enhancing solar-thermal energy conversion and storage capacity. Applied Energy, 2019, 237, 83-90.	10.1	283
62	Extracorporeal magnetic thermotherapy materials for self-controlled temperature through phase transition. Chemical Engineering Journal, 2019, 358, 1279-1286.	12.7	38
63	Patterned and Iridescent Plastics with 3D Inverse Opal Structure for Anticounterfeiting of the Banknotes. Advanced Optical Materials, 2018, 6, 1701351.	7.3	76
64	Nitrogen-doped carbon fiber foam enabled sulfur vapor deposited cathode for high performance lithium sulfur batteries. Chemical Engineering Journal, 2018, 341, 441-449.	12.7	59
65	Porous organic/inorganic hybrid one-dimensional photonic crystals for rapid visual detection of organic solvents. Journal of Materials Chemistry C, 2018, 6, 2704-2711.	5.5	48
66	Magneto-chromic Photonic Hydrogel for an Alternating Magnetic Field—Responsive Color Display. Advanced Optical Materials, 2018, 6, 1701093.	7.3	91
67	SnO ₂ Inverse Opal Composite Film with Low-Angle-Dependent Structural Color and Enhanced Mechanical Strength. Langmuir, 2018, 34, 3918-3924.	3.5	32
68	Ultrafast and efficient photothermal conversion for sunlight-driven thermal-electric system. Chemical Engineering Journal, 2018, 344, 402-409.	12.7	99
69	Novel light-driven CF/PEG/SiO ₂ composite phase change materials with high thermal conductivity. Solar Energy Materials and Solar Cells, 2018, 174, 538-544.	6.2	122
70	High-Performance and Multifunctional Colorimetric Humidity Sensors Based on Mesoporous Photonic Crystals and Nanogels. ACS Applied Materials & Interfaces, 2018, 10, 41645-41654.	8.0	68
71	Biomimetic Structural Color Films with a Bilayer Inverse Heterostructure for Anticounterfeiting Applications. ACS Applied Materials & Interfaces, 2018, 10, 38459-38465.	8.0	92
72	CoO/Co—Activated Porous Carbon Cloth Cathode for High Performance Li—S Batteries. ChemSusChem, 2018, 11, 2695-2702.	6.8	57

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73	Novel Magnetic-to-Thermal Conversion and Thermal Energy Management Composite Phase Change Material. <i>Polymers</i> , 2018, 10, 585.	4.5	26
74	Structurally colored polymer films with narrow stop band, high angle-dependence and good mechanical robustness for trademark anti-counterfeiting. <i>Nanoscale</i> , 2018, 10, 14755-14762.	5.6	68
75	Dynamic monitoring of thermally assisted assembly of colloidal crystals. <i>Journal of Materials Science</i> , 2017, 52, 7883-7892.	3.7	12
76	Vivid structural colors with low angle dependence from long-range ordered photonic crystal films. <i>Nanoscale</i> , 2017, 9, 3002-3009.	5.6	48
77	Iridescent structural colors from self-assembled polymer opal of polythiourethane microspheres. <i>Dyes and Pigments</i> , 2017, 142, 371-378.	3.7	11
78	Light-heat conversion and thermal conductivity enhancement of PEG/SiO ₂ composite PCM by in situ TiO ₂ doping. <i>Solar Energy Materials and Solar Cells</i> , 2017, 161, 183-189.	6.2	109
79	Multiple Colors Output on Voile through 3D Colloidal Crystals with Robust Mechanical Properties. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 3024-3029.	8.0	76
80	Fabrication of tough photonic crystal patterns with vivid structural colors by direct handwriting. <i>Nanoscale</i> , 2017, 9, 17877-17883.	5.6	29
81	Bright structural coloration from organic polymeric photonic crystals with robust heat-resistance. <i>Journal of Materials Chemistry C</i> , 2017, 5, 9806-9811.	5.5	9
82	All nanoparticle-based P(MMA- <i>co</i> -AA)/TiO ₂ one-dimensional photonic crystal films with tunable structural colors. <i>Journal of Materials Chemistry C</i> , 2017, 5, 8266-8272.	5.5	30
83	Facile Synthesis of Monodispersed Polysulfide Spheres for Building Structural Colors with High Color Visibility and Broad Viewing Angle. <i>Small</i> , 2017, 13, 1602565.	10.0	45
84	Fe ₃ O ₄ -functionalized graphene nanosheet embedded phase change material composites: efficient magnetic- and sunlight-driven energy conversion and storage. <i>Journal of Materials Chemistry A</i> , 2017, 5, 958-968.	10.3	245
85	Stable diazonium salts of weakly basic amines—Convenient reagents for synthesis of disperse azo dyes. <i>Dyes and Pigments</i> , 2017, 136, 63-69.	3.7	27
86	Controllable 5-sulfosalicylic acid assisted solvothermal synthesis of monodispersed superparamagnetic Fe ₃ O ₄ nanoclusters with tunable size. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 423, 111-117.	2.3	23
87	Novel hybrid form-stable polyether phase change materials with good fire resistance. <i>Energy Storage Materials</i> , 2017, 6, 46-52.	18.0	44
88	Hydrophilic Modification of Multi-Walled Carbon Nanotube for Building Photonic Crystals with Enhanced Color Visibility and Mechanical Strength. <i>Molecules</i> , 2016, 21, 547.	3.8	22
89	Biomimetic Construction of Non-iridescent Structural Color Films with High Hydrophobicity and Good Mechanical Stability Induced by Chaotic Convective Coassembly Method. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600374.	3.7	31
90	Form-stable phase change materials with high phase change enthalpy from the composite of paraffin and cross-linking phase change structure. <i>Applied Energy</i> , 2016, 184, 241-246.	10.1	130

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91	Synthesis of highly uniform Cu ₂ O spheres by a two-step approach and their assembly to form photonic crystals with a brilliant color. <i>Nanoscale</i> , 2016, 8, 6155-6161.	5.6	33
92	Hexadecanol/phase change polyurethane composite as form-stable phase change material for thermal energy storage. <i>Solar Energy Materials and Solar Cells</i> , 2016, 144, 1-6.	6.2	153
93	A new kind of H-acid monoazo-anthraquinone reactive dyes with surprising colour. <i>Dyes and Pigments</i> , 2015, 123, 44-54.	3.7	30
94	Easy approach to assembling a biomimetic color film with tunable structural colors. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2015, 32, 1109.	1.5	36
95	Size-controlled synthesis of water-dispersible superparamagnetic Fe ₃ O ₄ nanoclusters and their magnetic responsiveness. <i>RSC Advances</i> , 2015, 5, 75292-75299.	3.6	55
96	Simple fabrication of colloidal crystal structural color films with good mechanical stability and high hydrophobicity. <i>Dyes and Pigments</i> , 2015, 123, 420-426.	3.7	34
97	PEG/SiO ₂ /Al ₂ O ₃ hybrid form-stable phase change materials with enhanced thermal conductivity. <i>Materials Chemistry and Physics</i> , 2014, 144, 162-167.	4.0	129
98	A full-band sunlight-driven carbon nanotube/PEG/SiO ₂ composites for solar energy storage. <i>Solar Energy Materials and Solar Cells</i> , 2014, 123, 7-12.	6.2	148
99	Hydrophobic structural color films with bright color and tunable stop-bands. <i>Dyes and Pigments</i> , 2014, 104, 146-150.	3.7	41
100	Organic, cross-linking, and shape-stabilized solar thermal energy storage materials: A reversible phase transition driven by broadband visible light. <i>Applied Energy</i> , 2014, 113, 59-66.	10.1	40
101	Facile synthesis and performances of PEG/SiO ₂ composite form-stable phase change materials. <i>Solar Energy</i> , 2013, 97, 484-492.	6.1	76
102	Heat-resistant PMMA photonic crystal films with bright structural color. <i>Dyes and Pigments</i> , 2013, 99, 1022-1028.	3.7	35
103	Single-Walled Carbon Nanotube/Phase Change Material Composites: Sunlight-Driven, Reversible, Form-Stable Phase Transitions for Solar Thermal Energy Storage. <i>Advanced Functional Materials</i> , 2013, 23, 4354-4360.	14.9	331
104	Light-thermal conversion organic shape-stabilized phase-change materials with broadband harvesting for visible light of solar radiation. <i>RSC Advances</i> , 2012, 2, 11372.	3.6	24
105	Novel organic solar thermal energy storage materials: efficient visible light-driven reversible solid-liquid phase transition. <i>Journal of Materials Chemistry</i> , 2012, 22, 18145.	6.7	90
106	Thermal conductivity enhancement of PEG/SiO ₂ composite PCM by in situ Cu doping. <i>Solar Energy Materials and Solar Cells</i> , 2012, 105, 242-248.	6.2	175
107	Visible light-driven organic form-stable phase change materials for solar energy storage. <i>RSC Advances</i> , 2012, 2, 5964.	3.6	39