

# Photoswitchable fluorescent polymer nanoparticles as materials for authentication and optical patterning

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Photoluminescent and Chromic Nanomaterials for Anticounterfeiting Technologies: Recent Advances and Future Challenges. <i>ACS Nano</i> , 2020, 14, 14417-14492.	7.3	314
2	Stimuli-transition of hydrophobicity/hydrophilicity in o-nitrobenzyl ester-containing multi-responsive copolymers: Application in patterning and droplet stabilization in heterogeneous media. <i>Polymer</i> , 2020, 205, 122859.	1.8	19
3	Encryption and optical authentication of confidential cellulosic papers by ecofriendly multi-color photoluminescent inks. <i>Carbohydrate Polymers</i> , 2020, 245, 116507.	5.1	43
4	Controlled release of anti-cancer drug from the shell and hollow cavities of poly(N-isopropylacrylamide) hydrogel particles synthesized via reversible addition-fragmentation chain transfer polymerization. <i>European Polymer Journal</i> , 2020, 135, 109877.	2.6	20
5	Encryption and authentication of security patterns by ecofriendly multi-color photoluminescent inks containing oxazolidine-functionalized nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2020, 580, 192-210.	5.0	40
6	Modification of cellulose nanocrystal with dual temperature- and CO <sub>2</sub> -responsive block copolymers for ion adsorption applications. <i>Journal of Molecular Liquids</i> , 2020, 310, 113234.	2.3	24
7	Cellulose nanocrystal-grafted multi-responsive copolymers containing cleavable o-nitrobenzyl ester units for stimuli-stabilization of oil-in-water droplets. <i>Chemical Engineering Journal</i> , 2021, 417, 128005.	6.6	20
8	Dual-mode security anticounterfeiting and encoding by electrospinning of highly photoluminescent spiropyran nanofibers. <i>Journal of Materials Chemistry C</i> , 2021, 9, 9571-9583.	2.7	27
9	Bioinspired Synergistic Photochromic Luminescence and Programmable Liquid Crystal Actuators. <i>Angewandte Chemie</i> , 2021, 133, 11347-11351.	1.6	28
10	Bioinspired Synergistic Photochromic Luminescence and Programmable Liquid Crystal Actuators. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 11247-11251.	7.2	125
11	Interparticle cycloaddition reactions for morphology transition of coumarin-functionalized stimuli-responsive polymer nanoparticles prepared by surfactant-free dispersion polymerization. <i>Polymer</i> , 2021, 228, 123899.	1.8	12
12	Dynamic Photochromic Polymer Nanoparticles Based on Matrix-Dependent Förster Resonance Energy Transfer and Aggregation-Induced Emission Properties. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 33574-33583.	4.0	33
13	Photoswitchable surface wettability of ultrahydrophobic nanofibrous coatings composed of spiropyran-acrylic copolymers. <i>Journal of Colloid and Interface Science</i> , 2021, 593, 67-78.	5.0	29
14	Production of photochromic nanocomposite film via spray-coating of rare-earth strontium aluminate for anti-counterfeit applications. <i>Luminescence</i> , 2021, 36, 1933-1944.	1.5	51
15	Detection of Anti-Counterfeiting Markers through Permittivity Maps Using a Micrometer Scale near Field Scanning Microwave Microscope. <i>Sensors</i> , 2021, 21, 5463.	2.1	4
16	Construction of pillar[5]arene-based photochromic supramolecular polymeric system with tunable thermal bleaching rate. <i>Polymer</i> , 2021, 231, 124112.	1.8	5
17	Photoluminescent Nanoinks with Multilevel Security for Quick Authentication of Encoded Optical Tags by Sunlight: Effective Physicochemical Parameters on Responsivity, Printability, and Brightness. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 44878-44892.	4.0	24
18	Synthesis of lanthanide-doped strontium aluminate nanoparticles encapsulated in polyacrylonitrile nanofibres: photoluminescence properties for anticounterfeiting applications. <i>Luminescence</i> , 2022, 37, 40-50.	1.5	18

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19	Sectional intramolecular charge transfer manipulating in a D-A-D' coumarin derivative for recessive rewritable paper. <i>Dyes and Pigments</i> , 2021, 194, 109605.	2.0	3
20	Dual photochromics-contained photoswitchable multistate fluorescent polymers for advanced optical data storage, encryption, and photowritable pattern. <i>Chemical Engineering Journal</i> , 2021, 425, 131557.	6.6	56
21	The transfer and amplification of cyanostilbene molecular function to advanced flexible optical paints through self-crosslinkable side-chain liquid crystal polysiloxanes. <i>Materials Horizons</i> , 2021, 8, 1561-1569.	6.4	10
22	Morphology evolution of functionalized styrene and methyl methacrylate copolymer latex nanoparticles by one-step emulsifier-free emulsion polymerization. <i>European Polymer Journal</i> , 2020, 133, 109790.	2.6	26
23	Organic photoresponsive materials for information storage: a review. <i>Advanced Photonics</i> , 2020, 3, .	6.2	48
24	Smart block copolymers as fluorescence chemosensors of copper ions with high detection limit. <i>Journal of Molecular Liquids</i> , 2022, 345, 117786.	2.3	10
25	Colloidal Self-Assembly Approaches to Smart Nanostructured Materials. <i>Chemical Reviews</i> , 2022, 122, 4976-5067.	23.0	173
26	Stimuli-responsive block copolymers as pH chemosensors by fluorescence emission intensification mechanism. <i>European Polymer Journal</i> , 2022, 162, 110928.	2.6	9
27	Dual-mode luminescent multilayer core-shell UCNPs@SiO <sub>2</sub> @TEuTbB nanospheres for high-level anti-counterfeiting and recognition of latent fingerprints. <i>Applied Surface Science</i> , 2022, 581, 152395.	3.1	19
28	Anti-Counterfeiting Tags Using Flexible Substrate with Gradient Micropatterning of Silver Nanowires. <i>Micromachines</i> , 2022, 13, 168.	1.4	3
29	Development of highly sensitive metal-ion chemosensor and key-lock anticounterfeiting technology based on oxazolidine. <i>Scientific Reports</i> , 2022, 12, 1079.	1.6	12
30	Novel nanocomposite film developed via screen-printing of viologen polymer for anti-counterfeiting applications: Photochromism, thermochromism and vapochromic. <i>Reactive and Functional Polymers</i> , 2022, 172, 105186.	2.0	25
31	Carbon Dots Embedded in Cellulose Film: Programmable, Performance-Tunable, and Large-Scale Subtle Fluorescent Patterning by <i>in Situ</i> Laser Writing. <i>ACS Nano</i> , 2022, 16, 2910-2920.	7.3	21
32	Development of photochromic fused 2H-naphthopyrans with promising thermal fading rates. <i>Journal of Materials Chemistry C</i> , 2022, 10, 5542-5549.	2.7	3
33	Aptamer Functionalization and High-Contrast Reversible Dual-Color Photoswitching Fluorescence Of Polymeric Nanoparticles For Latent Fingerprints Imaging. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
34	Coumarin-Containing Block Copolymers as Carbon Dioxide Chemosensors Based on a Fluorescence Quenching Mechanism. <i>ACS Applied Polymer Materials</i> , 2022, 4, 1816-1825.	2.0	14
35	Fluorescent Polymers Conspectus. <i>Polymers</i> , 2022, 14, 1118.	2.0	16
36	Quadruple Anti-Counterfeiting Retroreflective Structural Color Films. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	17

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37	Aptamer functionalization and high-contrast reversible dual-color photoswitching fluorescence of polymeric nanoparticles for latent fingerprints imaging. <i>Sensors and Actuators B: Chemical</i> , 2022, 367, 132049.	4.0	9
38	Development of optical chemosensors based on photochromic polymer nanocarriers. <i>New Journal of Chemistry</i> , 2022, 46, 15080-15094.	1.4	11
39	Photo-pH dual stimuli-responsive multicolor fluorescent polymeric nanoparticles for multicolor security ink, optical data encryption and zebrafish imaging. <i>Dyes and Pigments</i> , 2022, 205, 110588.	2.0	14
40	Inorganic photochromism material SrHfO <sub>3</sub> :Er <sup>3+</sup> integrating multiple optical behaviors for multimodal anti-counterfeiting. <i>Journal of Alloys and Compounds</i> , 2022, 921, 166081.	2.8	15
41	Optical Chemosensors based on Spiropyran-Doped Polymer Nanoparticles for Sensing pH of Aqueous Media. <i>Langmuir</i> , 2022, 38, 9410-9420.	1.6	13
42	Coupling of Hydrophobic Graphene Quantum Dots with Photochromic Molecule for Fabrication of Transparent Photo-Responsive Polymeric Films Manifesting FRET Functioning. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
44	Colorimetric/fluorometric optical chemosensors based on oxazolidine for highly selective detection of Fe <sup>3+</sup> and Ag <sup>+</sup> in aqueous media: Development of ionochromic security papers. <i>Journal of Molecular Structure</i> , 2023, 1271, 134021.	1.8	5
45	Photochromic Polymer Nanoparticles as Highly Efficient Anticounterfeiting Nanoinks for Development of Photo-Switchable Encoded Tags. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
46	Stimuli-Responsive Dendritic Macromolecules for Optical Detection of Metal Ions and Acidic Vapors by the Photoinduced Electron Transfer Mechanism: Paper-Based Indicator for Food Spoilage Sensing. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 41433-41446.	4.0	11
47	Water treatment using stimuli-responsive polymers. <i>Polymer Chemistry</i> , 2022, 13, 5940-5964.	1.9	9
48	Scalable Production of Self-Toughening Plant Oil-Based Polyurethane Elastomers with Multistimuli-Responsive Functionalities. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 50090-50100.	4.0	11
49	Photoluminescent Polymer Nanoparticles Based on Oxazolidine Derivatives for Authentication and Security Marking of Confidential Notes. <i>Langmuir</i> , 2022, 38, 13782-13792.	1.6	14
50	Photochromic polymer nanoparticles as highly efficient anticounterfeiting nanoinks for development of photo-switchable encoded tags. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2023, 436, 114343.	2.0	21
51	Acrylicâ€rethane/modified Rhodamineâ€B ecoâ€friendly UVâ€curable anticounterfeiting ink. <i>Polymers for Advanced Technologies</i> , 2023, 34, 646-654.	1.6	2
52	Coupling of hydrophobic graphene quantum dots with photochromic molecule for fabrication of transparent photo-responsive polymeric films manifesting FRET functioning. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2023, 437, 114420.	2.0	3
53	Development of pH sensing colloidal nanoparticles and oil/water separating electrospun membranes containing oxazolidine from functional polymers. <i>Journal of Materials Chemistry C</i> , 2023, 11, 685-697.	2.7	6
54	Thermostably photoswitchable red fluorescent polymeric nanoparticles for rewritable fluorescence patterning and zebrafish imaging. <i>European Polymer Journal</i> , 2023, 183, 111771.	2.6	4
55	Anti-Counterfeiting Inks Based on FÃ¶rster Resonance Energy Transfer in Microcrystalline Cellulose-Grafted Poly(amidoamine) for Artificial Industries. <i>ACS Applied Polymer Materials</i> , 2023, 5, 1092-1102.	2.0	6

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56	Nano-inks in security and defense applications. , 2023, , 623-657.		0
57	Dual-Color Photoluminescent Functionalized Nanoparticles for Static-Dynamic Anticounterfeiting and Encryption: First Collaboration of Spiropyran and Coumarin. ACS Applied Materials & Interfaces, 2023, 15, 7466-7484.	4.0	32
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59	Synthesis and Application of Fluorescent Polymer Micro€and Nanoparticles. Small, 2023, 19, .	5.2	9
60	Anti-counterfeiting ink based on polymer nanoparticles containing spiropyran and Aza-BODIPY for artificial industries. Reactive and Functional Polymers, 2023, 187, 105593.	2.0	8