

# Lab-on-a-Chip Contact Lens: Recent Advances and Future Therapeutics

Advanced Materials

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Static and Dynamic Biomaterial Engineering for Cell Modulation. <i>Nanomaterials</i> , 2022, 12, 1377.	4.1	10
2	A Microchambers Containing Contact Lens for the Noninvasive Detection of Tear Exosomes. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	15
3	Wireless Noninvasive Monitoring of Cholesterol Using a Smart Contact Lens. <i>Advanced Science</i> , 2022, 9, .	11.2	32
4	A CRISPR-Cas12a integrated SERS nanoplatfrom with chimeric DNA/RNA hairpin guide for ultrasensitive nucleic acid detection. <i>Theranostics</i> , 2022, 12, 5914-5930.	10.0	26
5	Multifunctional Magnetic Nanoparticles for Dynamic Imaging and Therapy. <i>Advanced NanoBiomed Research</i> , 2022, 2, .	3.6	11
7	Photoswitchable Microgels for Dynamic Macrophage Modulation. <i>Advanced Materials</i> , 2022, 34, .	21.0	13
8	Smart Contact Lenses for the New Era of IoT: Integrated Biosensors, Circuits, and Human-Machine Interface Systems. <i>Advanced Materials Technologies</i> , 2023, 8, .	5.8	6
9	Meniscus-Guided Micro-Printing of Prussian Blue for Smart Electrochromic Display. <i>Advanced Science</i> , 2023, 10, .	11.2	13
10	Recent Applications of Contact Lenses for Bacterial Corneal Keratitis Therapeutics: A Review. <i>Pharmaceutics</i> , 2022, 14, 2635.	4.5	2
11	Microfluidic contact lenses for ocular diagnostics and drug delivery. <i>Nano Select</i> , 2023, 4, 79-89.	3.7	3
12	A Microfluidic Contact Lens to Address Contact Lens-Induced Dry Eye. <i>Small</i> , 2023, 19, .	10.0	3
13	Ligand Coupling and Decoupling Modulates Stem Cell Fate. <i>Advanced Functional Materials</i> , 2023, 33, .	14.9	5
14	Modulation of Macrophages by In Situ Ligand Bridging. <i>Advanced Functional Materials</i> , 2023, 33, .	14.9	5
15	Smart contact lens systems for ocular drug delivery and therapy. <i>Advanced Drug Delivery Reviews</i> , 2023, 196, 114817.	13.7	11
16	A tear-based battery charged by biofuel for smart contact lenses. <i>Nano Energy</i> , 2023, 110, 108344.	16.0	3
17	Precisely integrated contact lens: An intraocular pressure guard for glaucoma patients. , 2023, 4, 39-40.		1
18	Skin-interfaced electronics: A promising and intelligent paradigm for personalized healthcare. <i>Biomaterials</i> , 2023, 296, 122075.	11.4	12
19	Covalently Attached Slippery Surface Coatings to Reduce Protein Adsorptions on Poly(dimethylsiloxane) Planar Surfaces and 3D Microfluidic Channels. <i>ACS Applied Materials &amp; Interfaces</i> , 2023, 15, 9987-9995.	8.0	4

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20	Editorial: Highlights in diagnostic and therapeutic devices 2021/22. <i>Frontiers in Medical Technology</i> , 0, 5, .	2.5	0
21	Technology Roadmap for Flexible Sensors. <i>ACS Nano</i> , 2023, 17, 5211-5295.	14.6	238
22	Intraocular nano-microscale drug delivery systems for glaucoma treatment: design strategies and recent progress. <i>Journal of Nanobiotechnology</i> , 2023, 21, .	9.1	6
23	TFOS Lifestyle: Impact of contact lenses on the ocular surface. <i>Ocular Surface</i> , 2023, 29, 175-219.	4.4	10
24	An All-in-One Transient Theranostic Platform for Intelligent Management of Hemorrhage. <i>Advanced Science</i> , 2023, 10, .	11.2	3
25	Nanoparticle-embedded hydrogels as a functional polymeric composite for biomedical applications. <i>Materials Today: Proceedings</i> , 2023, , .	1.8	3
26	The Future of Vision: A Review of Electronic Contact Lenses Technology. <i>ACS Photonics</i> , 2023, 10, 1671-1686.	6.6	5
27	Snowflake-inspired and blink-driven flexible piezoelectric contact lenses for effective corneal injury repair. <i>Nature Communications</i> , 2023, 14, .	12.8	6
28	Polysaccharides in contact lenses: From additives to bulk materials. <i>Carbohydrate Polymers</i> , 2023, 316, 121003.	10.2	3
29	Laser-Responsive Shape Memory Device to Program the Stepwise Control of Intraocular Pressure in Glaucoma. <i>Advanced Functional Materials</i> , 2023, 33, .	14.9	3
30	A Review of Thin Films Used in Smart Contact Lenses. <i>Advanced Engineering Materials</i> , 2024, 26, .	3.5	3
31	Recent advances of smart materials for ocular drug delivery. <i>Advanced Drug Delivery Reviews</i> , 2023, 200, 115006.	13.7	6
32	Perspectives on recent advancements in energy harvesting, sensing and bio-medical applications of piezoelectric gels. <i>Chemical Society Reviews</i> , 2023, 52, 6191-6220.	38.1	12
33	Nanozyme-Cosmetic Contact Lenses for Ocular Surface Disease Prevention. <i>Advanced Materials</i> , 2023, 35, .	21.0	3
34	Bioenergy-Based Closed-Loop Medical Systems for the Integration of Treatment, Monitoring, and Feedback. <i>Small Science</i> , 2023, 3, .	9.9	0
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36	Smart Contact Lenses—A Step towards Non-Invasive Continuous Eye Health Monitoring. <i>Biosensors</i> , 2023, 13, 933.	4.7	0
37	Advancements in Wearable and Implantable Intraocular Pressure Biosensors for Ophthalmology: A Comprehensive Review. <i>Micromachines</i> , 2023, 14, 1915.	2.9	1

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38	Recent advancements in implantable neural links based on organic synaptic transistors. Exploration, 0, , .	11.0	0
39	Recent advancements in nanomaterial-laden contact lenses for diagnosis and treatment of glaucoma, review and update. Journal of Nanobiotechnology, 2023, 21, .	9.1	0
40	Bimatoprost Ophthalmic Solution (BOS) 0.3 mg w/v for 1 Open Trial of Long-term Preventive Therapy of Migraine in 3 patients with Pathophysiologic Shift from Brain to Eye. Journal of Neuroscience and Neurological Disorders, 2023, 7, 134-154.	0.3	0
41	A surface grafting strategy for antifouling/bioadhesive properties on a Janus-type polymeric thin film. Applied Surface Science, 2024, 649, 159146.	6.1	0
42	Ocular contact lenses: smart materials for biomedical applications. Polymer Bulletin, 0, , .	3.3	0
43	Advances and Challenges in Wearable Glaucoma Diagnostics and Therapeutics. Bioengineering, 2024, 11, 138.	3.5	0
44	An Ultrasensitive Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene-based Soft Contact Lens for Continuous and Nondestructive Intraocular Pressure Monitoring. Small, 0, , .	10.0	0
45	Wireless Battery-free and Fully Implantable Organ Interfaces. Chemical Reviews, 2024, 124, 2205-2280.	47.7	0
46	Smart Contact Lenses for Healthcare Monitoring and Therapy. ACS Nano, 2024, 18, 6817-6844.	14.6	0
47	Vinyl Polymers as Key Materials in Contact Lens Design: A Review of Progress and Future Directions. Starch/Staerke, 0, , .	2.1	0
48	Smart molecules in ophthalmology: Hydrogels as responsive systems for ophthalmic applications. , 2024, 2, .		0