

# Jin-Young Kim

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9154401/publications.pdf>

Version: 2024-02-01

22  
papers

1,321  
citations

430442

18  
h-index

610482

24  
g-index

24  
all docs

24  
docs citations

24  
times ranked

1208  
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetically actuated microrobots as a platform for stem cell transplantation. <i>Science Robotics</i> , 2019, 4, .	9.9	247
2	A Magnetically Controlled Soft Microrobot Steering a Guidewire in a Three-Dimensional Phantom Vascular Network. <i>Soft Robotics</i> , 2019, 6, 54-68.	4.6	183
3	Magnetically Actuated Degradable Microrobots for Actively Controlled Drug Release and Hyperthermia Therapy. <i>Advanced Healthcare Materials</i> , 2019, 8, e1900213.	3.9	116
4	A review of magnetic actuation systems and magnetically actuated guidewire- and catheter-based microrobots for vascular interventions. <i>Intelligent Service Robotics</i> , 2020, 13, 1-14.	1.6	95
5	3D Fabrication of Fully Iron Magnetic Microrobots. <i>Small</i> , 2019, 15, e1805006.	5.2	79
6	A Capsule-Type Microrobot with Pick-and-Drop Motion for Targeted Drug and Cell Delivery. <i>Advanced Healthcare Materials</i> , 2018, 7, e1700985.	3.9	77
7	A magnetically actuated microrobot for targeted neural cell delivery and selective connection of neural networks. <i>Science Advances</i> , 2020, 6, .	4.7	64
8	Fabrication and Characterization of a Magnetic Drilling Actuator for Navigation in a Three-dimensional Phantom Vascular Network. <i>Scientific Reports</i> , 2018, 8, 3691.	1.6	60
9	Acoustically Mediated Controlled Drug Release and Targeted Therapy with Degradable 3D Porous Magnetic Microrobots. <i>Advanced Healthcare Materials</i> , 2021, 10, e2001096.	3.9	59
10	Recent Progress in Magnetically Actuated Microrobots for Targeted Delivery of Therapeutic Agents. <i>Advanced Healthcare Materials</i> , 2021, 10, e2001596.	3.9	56
11	A Needle-Type Microrobot for Targeted Drug Delivery by Affixing to a Microtissue. <i>Advanced Healthcare Materials</i> , 2020, 9, e1901697.	3.9	54
12	A Magnetically Powered Stem Cell-Based Microrobot for Minimally Invasive Stem Cell Delivery via the Intranasal Pathway in a Mouse Brain. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100801.	3.9	32
13	Steering Algorithm for a Flexible Microrobot to Enhance Guidewire Control in a Coronary Angioplasty Application. <i>Micromachines</i> , 2018, 9, 617.	1.4	30
14	Magnetically Actuated SiCN-Based Ceramic Microrobot for Guided Cell Delivery. <i>Advanced Healthcare Materials</i> , 2019, 8, e1900739.	3.9	29
15	A Biodegradable Magnetic Microrobot Based on Gelatin Methacrylate for Precise Delivery of Stem Cells with Mass Production Capability. <i>Small</i> , 2022, 18, .	5.2	29
16	A simple and rapid fabrication method for biodegradable drug-encapsulating microrobots using laser micromachining, and characterization thereof. <i>Sensors and Actuators B: Chemical</i> , 2018, 266, 276-287.	4.0	25
17	Improving guidewire-mediated steerability of a magnetically actuated flexible microrobot. <i>Micro and Nano Systems Letters</i> , 2018, 6, .	1.7	25
18	A 3D Microscaffold Cochlear Electrode Array for Steroid Elution. <i>Advanced Healthcare Materials</i> , 2019, 8, e1900379.	3.9	23

#	ARTICLE	IF	CITATIONS
19	An Electromagnetically Controllable Microrobotic Interventional System for Targeted, Real-Time Cardiovascular Intervention. <i>Advanced Healthcare Materials</i> , 2022, 11, e2102529.	3.9	20
20	Closed-Loop Temperature-Controlled Magnetic Hyperthermia Therapy with Magnetic Guidance of Superparamagnetic Iron-Oxide Nanoparticles. <i>Advanced Therapeutics</i> , 2022, 5, .	1.6	9
21	Microrobotics: 3D Fabrication of Fully Iron Magnetic Microrobots (Small 16/2019). <i>Small</i> , 2019, 15, 1970086.	5.2	2
22	Biocompatible Microrobots: Magnetically Actuated SiCN-Based Ceramic Microrobot for Guided Cell Delivery ( <i>Adv. Healthcare Mater.</i> 21/2019). <i>Advanced Healthcare Materials</i> , 2019, 8, 1970085.	3.9	2