

Fernando Soto

List of Publications by Year in descending order

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54
papers

4,608
citations

136950

32
h-index

161849

54
g-index

59
all docs

59
docs citations

59
times ranked

3978
citing authors

#	ARTICLE	IF	CITATIONS
1	Functionalized Ultrasound-Propelled Magnetically Guided Nanomotors: Toward Practical Biomedical Applications. ACS Nano, 2013, 7, 9232-9240.	14.6	386
2	Single Cell Real-Time miRNAs Sensing Based on Nanomotors. ACS Nano, 2015, 9, 6756-6764.	14.6	267
3	Reversible Swarming and Separation of Self-Propelled Chemically Powered Nanomotors under Acoustic Fields. Journal of the American Chemical Society, 2015, 137, 2163-2166.	13.7	258
4	Acoustically Propelled Nanomotors for Intracellular siRNA Delivery. ACS Nano, 2016, 10, 4997-5005.	14.6	257
5	Enteric Micromotor Can Selectively Position and Spontaneously Propel in the Gastrointestinal Tract. ACS Nano, 2016, 10, 9536-9542.	14.6	211
6	Smart Materials for Microrobots. Chemical Reviews, 2022, 122, 5365-5403.	47.7	201
7	3D steerable, acoustically powered microswimmers for single-particle manipulation. Science Advances, 2019, 5, eaax3084.	10.3	199
8	Medical Micro/Nanorobots in Precision Medicine. Advanced Science, 2020, 7, 2002203.	11.2	197
9	Ultrasound-Propelled Nanoporous Gold Wire for Efficient Drug Loading and Release. Small, 2014, 10, 4154-4159.	10.0	196
10	Sweat-based wearable energy harvesting-storage hybrid textile devices. Energy and Environmental Science, 2018, 11, 3431-3442.	30.8	196
11	Hybrid biomembrane-functionalized nanorobots for concurrent removal of pathogenic bacteria and toxins. Science Robotics, 2018, 3, .	17.6	190
12	Ultrasound-Modulated Bubble Propulsion of Chemically Powered Microengines. Journal of the American Chemical Society, 2014, 136, 8552-8555.	13.7	177
13	Built-In Active Microneedle Patch with Enhanced Autonomous Drug Delivery. Advanced Materials, 2020, 32, e1905740.	21.0	160
14	Lysozyme-Based Antibacterial Nanomotors. ACS Nano, 2015, 9, 9252-9259.	14.6	141
15	Transient Micromotors That Disappear When No Longer Needed. ACS Nano, 2016, 10, 10389-10396.	14.6	109
16	Liquid Metal Based Island-Bridge Architectures for All Printed Stretchable Electrochemical Devices. Advanced Functional Materials, 2020, 30, 2002041.	14.9	95
17	Advanced Point-of-Care Testing Technologies for Human Acute Respiratory Virus Detection. Advanced Materials, 2022, 34, e2103646.	21.0	92
18	Acoustic Microcannons: Toward Advanced Microballistics. ACS Nano, 2016, 10, 1522-1528.	14.6	91

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19	A microneedle biosensor for minimally-invasive transdermal detection of nerve agents. <i>Analyst</i> , The, 2017, 142, 918-924.	3.5	86
20	Frontiers of Medical Micro/Nanorobotics: in vivo Applications and Commercialization Perspectives Toward Clinical Uses. <i>Frontiers in Bioengineering and Biotechnology</i> , 2018, 6, 170.	4.1	86
21	Acoustically propelled nanoshells. <i>Nanoscale</i> , 2016, 8, 17788-17793.	5.6	81
22	Structure-Dependent Optical Modulation of Propulsion and Collective Behavior of Acoustic/Light-Driven Hybrid Microbowls. <i>Advanced Functional Materials</i> , 2019, 29, 1809003.	14.9	79
23	Designer exosomes enabling tumor targeted efficient chemo/gene/photothermal therapy. <i>Biomaterials</i> , 2021, 276, 121056.	11.4	79
24	Hybrid Nanovehicles: One Machine, Two Engines. <i>Advanced Functional Materials</i> , 2019, 29, 1806290.	14.9	77
25	Micromotor-Based Energy Generation. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 6896-6899.	13.8	68
26	Topographical Manipulation of Microparticles and Cells with Acoustic Microstreaming. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 38870-38876.	8.0	60
27	Density Asymmetry Driven Propulsion of Ultrasound-Powered Janus Micromotors. <i>Advanced Functional Materials</i> , 2020, 30, 2004043.	14.9	60
28	Laser-Induced Graphene Composites for Printed, Stretchable, and Wearable Electronics. <i>Advanced Materials Technologies</i> , 2019, 4, 1900162.	5.8	55
29	Noninvasive Transdermal Delivery System of Lidocaine Using an Acoustic Droplet-Vaporization Based Wearable Patch. <i>Small</i> , 2018, 14, e1803266.	10.0	47
30	Rotibot: Use of Rotifers as Self-Propelling Biohybrid Microcleaners. <i>Advanced Functional Materials</i> , 2019, 29, 1900658.	14.9	37
31	Parallel Label-Free Isolation of Cancer Cells Using Arrays of Acoustic Microstreaming Traps. <i>Advanced Materials Technologies</i> , 2019, 4, 1800374.	5.8	35
32	Multigear Bubble Propulsion of Transient Micromotors. <i>Research</i> , 2020, 2020, 7823615.	5.7	32
33	Onion-Like Multifunctional Microtrap Vehicles for Attraction-Trapping-Destruction of Biological Threats. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 3480-3485.	13.8	31
34	Virus-Based Nanomotors for Cargo Delivery. <i>ChemNanoMat</i> , 2019, 5, 194-200.	2.8	28
35	Wearable Collector for Noninvasive Sampling of SARS-CoV-2 from Exhaled Breath for Rapid Detection. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 41445-41453.	8.0	24
36	Epidermal Tattoo Patch for Ultrasound-Based Transdermal Microballistic Delivery. <i>Advanced Materials Technologies</i> , 2017, 2, 1700210.	5.8	21

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37	Engineering Polysaccharide-Based Hydrogel Photonic Constructs: From Multiscale Detection to the Biofabrication of Living Optical Fibers. <i>Advanced Materials</i> , 2021, 33, e2105361.	21.0	21
38	Microneedle-mediated Intratumoral Delivery of Anti-CTLA-4 Promotes cDC1-dependent Eradication of Oral Squamous Cell Carcinoma with Limited irAEs. <i>Molecular Cancer Therapeutics</i> , 2022, 21, 616-624.	4.1	20
39	Self-propelled screen-printable catalytic swimmers. <i>RSC Advances</i> , 2015, 5, 78986-78993.	3.6	16
40	Delayed ignition and propulsion of catalytic microrockets based on fuel-induced chemical dealloying of the inner alloy layer. <i>Chemical Communications</i> , 2016, 52, 11838-11841.	4.1	14
41	Engineering Ultrasound Fields to Power Medical Micro/Nanorobots. <i>Current Robotics Reports</i> , 2021, 2, 21-32.	7.9	14
42	Volbots: Volvox Microalgae-Based Robots for Multimode Precision Imaging and Therapy. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	12
43	Onion-like Multifunctional Microtrap Vehicles for Attraction-“Trapping” Destruction of Biological Threats. <i>Angewandte Chemie</i> , 2020, 132, 3508-3513.	2.0	10
44	Reversible Design of Dynamic Assemblies at Small Scales. <i>Advanced Intelligent Systems</i> , 2021, 3, 2000193.	6.1	10
45	Combinatorial microneedle patch with tunable release kinetics and dual fast-deep/sustained release capabilities. <i>Journal of Materials Chemistry B</i> , 2021, 9, 2189-2199.	5.8	9
46	Acoustic Fabrication of Living Cardiomyocyte-based Hybrid Biorobots. <i>ACS Nano</i> , 2022, 16, 10219-10230.	14.6	9
47	Increasing Diversity in Radiology and Molecular Imaging: Current Challenges. <i>Molecular Imaging and Biology</i> , 2021, 23, 625-638.	2.6	8
48	Engineering the Interaction Dynamics between Nano-Topographical Immunocyte-templated Micromotors across Scales from Ions to Cells. <i>Small</i> , 2020, 16, 2005185.	10.0	7
49	Progress and challenges in biomarker enrichment for cancer early detection. <i>Progress in Biomedical Engineering</i> , 2021, 3, 043001.	4.9	6
50	Robotic Pill for Biomarker and Fluid Sampling in the Gastrointestinal Tract. <i>Advanced Intelligent Systems</i> , 2022, 4, .	6.1	6
51	Emerging biofabrication approaches for gastrointestinal organoids towards patient specific cancer models. <i>Cancer Letters</i> , 2021, 504, 116-124.	7.2	5
52	Ultrasound-Powered Micro-/Nanorobots: Fundamentals and Biomedical Applications. , 2022, , 29-60.		2
53	Micromotors: Engineering the Interaction Dynamics between Nano-Topographical Immunocyte-templated Micromotors across Scales from Ions to Cells (<i>Small</i> 49/2020). <i>Small</i> , 2020, 16, 2070265.	10.0	0
54	Risk Factors Associated With Bronchiolitis in Puerto Rican Children. <i>Pediatric Emergency Care</i> , 2020, Publish Ahead of Print, .	0.9	0