

John F Zimmerman

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

1,239
citations

516710

16
h-index

610901

24
g-index

27
all docs

27
docs citations

27
times ranked

2025
citing authors

#	ARTICLE	IF	CITATIONS
1	An autonomously swimming biohybrid fish designed with human cardiac biophysics. <i>Science</i> , 2022, 375, 639-647.	12.6	95
2	Addendum: A tissue-engineered scale model of the heart ventricle. <i>Nature Biomedical Engineering</i> , 2022, 6, 1318-1318.	22.5	2
3	Differential modulation of endothelial cytoplasmic protrusions after exposure to graphene-family nanomaterials. <i>NanoImpact</i> , 2022, 26, 100401.	4.5	3
4	High-throughput coating with biodegradable antimicrobial pullulan fibres extends shelf life and reduces weight loss in an avocado model. <i>Nature Food</i> , 2022, 3, 428-436.	14.0	38
5	Recreating the heart's helical structure-function relationship with focused rotary jet spinning. <i>Science</i> , 2022, 377, 180-185.	12.6	47
6	Inhibition of mTOR Signaling Enhances Maturation of Cardiomyocytes Derived From Human-Induced Pluripotent Stem Cells via p53-Induced Quiescence. <i>Circulation</i> , 2020, 141, 285-300.	1.6	72
7	Human brain microvascular endothelial cell pairs model tissue-level blood-brain barrier function. <i>Integrative Biology (United Kingdom)</i> , 2020, 12, 64-79.	1.3	8
8	para-Aramid Fiber Sheets for Simultaneous Mechanical and Thermal Protection in Extreme Environments. <i>Matter</i> , 2020, 3, 742-758.	10.0	43
9	Mapping 2D- and 3D-distributions of metal/metal oxide nanoparticles within cleared human ex vivo skin tissues. <i>NanoImpact</i> , 2020, 17, 100208.	4.5	11
10	Multifunctional optofluidic brain probes. <i>Nature Biomedical Engineering</i> , 2019, 3, 596-597.	22.5	3
11	Muscle tissue engineering in fibrous gelatin: implications for meat analogs. <i>Npj Science of Food</i> , 2019, 3, 20.	5.5	115
12	Synchronized stimulation and continuous insulin sensing in a microfluidic human Islet on a Chip designed for scalable manufacturing. <i>Lab on A Chip</i> , 2019, 19, 2993-3010.	6.0	74
13	Quantifying the effects of engineered nanomaterials on endothelial cell architecture and vascular barrier integrity using a cell pair model. <i>Nanoscale</i> , 2019, 11, 17878-17893.	5.6	14
14	Scatter Enhanced Phase Contrast Microscopy for Discriminating Mechanisms of Active Nanoparticle Transport in Living Cells. <i>Nano Letters</i> , 2019, 19, 793-804.	9.1	17
15	Photoelectrochemical modulation of neuronal activity with free-standing coaxial silicon nanowires. <i>Nature Nanotechnology</i> , 2018, 13, 260-266.	31.5	185
16	Nongenetic Optical Methods for Measuring and Modulating Neuronal Response. <i>ACS Nano</i> , 2018, 12, 4086-4095.	14.6	35
17	A tissue-engineered scale model of the heart ventricle. <i>Nature Biomedical Engineering</i> , 2018, 2, 930-941.	22.5	162
18	Mussel-inspired 3D fiber scaffolds for heart-on-a-chip toxicity studies of engineered nanomaterials. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 6141-6154.	3.7	66

#	ARTICLE	IF	CITATIONS
19	Cellular uptake and dynamics of unlabeled freestanding silicon nanowires. <i>Science Advances</i> , 2016, 2, e1601039.	10.3	84
20	Optical Determination of Silicon Nanowire Diameters for Intracellular Applications. <i>Journal of Physical Chemistry C</i> , 2015, 119, 29105-29115.	3.1	8
21	Atomic gold-enabled three-dimensional lithography for silicon mesostructures. <i>Science</i> , 2015, 348, 1451-1455.	12.6	82
22	Free-Standing Kinked Silicon Nanowires for Probing Inter- and Intracellular Force Dynamics. <i>Nano Letters</i> , 2015, 15, 5492-5498.	9.1	43
23	Nanowire Biosensors. <i>RSC Smart Materials</i> , 2014, , 167-199.	0.1	0
24	Nanoscale semiconductor devices as new biomaterials. <i>Biomaterials Science</i> , 2014, 2, 619-626.	5.4	25