

Kate E Fox

List of Publications by Year in descending order

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Version: 2024-02-01

72
papers

1,988
citations

236925

25
h-index

265206

42
g-index

73
all docs

73
docs citations

73
times ranked

2575
citing authors

#	ARTICLE	IF	CITATIONS
1	Minimally invasive endovascular stent-electrode array for high-fidelity, chronic recordings of cortical neural activity. <i>Nature Biotechnology</i> , 2016, 34, 320-327.	17.5	210
2	Recent Advances in Research Applications of Nanophase Hydroxyapatite. <i>ChemPhysChem</i> , 2012, 13, 2495-2506.	2.1	110
3	Electrical stimulation of retinal ganglion cells with diamond and the development of an all diamond retinal prosthesis. <i>Biomaterials</i> , 2012, 33, 5812-5820.	11.4	109
4	Ultra-nanocrystalline diamond electrodes: optimization towards neural stimulation applications. <i>Journal of Neural Engineering</i> , 2012, 9, 016002.	3.5	100
5	Effect of Surface Chemistry on the Fluorescence of Detonation Nanodiamonds. <i>ACS Nano</i> , 2017, 11, 10924-10934.	14.6	98
6	An all-diamond, hermetic electrical feedthrough array for a retinal prosthesis. <i>Biomaterials</i> , 2014, 35, 908-915.	11.4	89
7	The Application of Pulsed Electromagnetic Fields (PEMFs) for Bone Fracture Repair: Past and Perspective Findings. <i>Annals of Biomedical Engineering</i> , 2018, 46, 525-542.	2.5	62
8	Polycrystalline Diamond Coating of Additively Manufactured Titanium for Biomedical Applications. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 8474-8484.	8.0	61
9	Engineering the Interface: Nanodiamond Coating on 3D-Printed Titanium Promotes Mammalian Cell Growth and Inhibits <i>Staphylococcus aureus</i> Colonization. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 24588-24597.	8.0	60
10	Angle defines attachment: Switching the biological response to titanium interfaces by modifying the inclination angle during selective laser melting. <i>Materials and Design</i> , 2018, 154, 326-339.	7.0	51
11	3D printed dual macro-, microscale porous network as a tissue engineering scaffold with drug delivering function. <i>Biofabrication</i> , 2019, 11, 035014.	7.1	47
12	Optimizing growth and post treatment of diamond for high capacitance neural interfaces. <i>Biomaterials</i> , 2016, 104, 32-42.	11.4	45
13	Rational design of additively manufactured Ti6Al4V implants to control <i>Staphylococcus aureus</i> biofilm formation. <i>Materialia</i> , 2019, 5, 100250.	2.7	45
14	Hybrid diamond/ carbon fiber microelectrodes enable multimodal electrical/chemical neural interfacing. <i>Biomaterials</i> , 2020, 230, 119648.	11.4	41
15	Hermetic diamond capsules for biomedical implants enabled by gold active braze alloys. <i>Biomaterials</i> , 2015, 53, 464-474.	11.4	39
16	Nanodiamond/poly- $\hat{\mu}$ -caprolactone nanofibrous scaffold for wound management. <i>Materials Science and Engineering C</i> , 2019, 100, 378-387.	7.3	38
17	Multifunctional three-dimensional nanodiamond-nanoporous alumina nanoarchitectures. <i>Carbon</i> , 2014, 75, 452-464.	10.3	37
18	New insights into nickel-free superelastic titanium alloys for biomedical applications. <i>Current Opinion in Solid State and Materials Science</i> , 2019, 23, 100783.	11.5	36

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19	Diamond Devices for High Acuity Prosthetic Vision. <i>Advanced Biology</i> , 2017, 1, e1600003.	3.0	35
20	Nanomaterials for Treating Bacterial Biofilms on Implantable Medical Devices. <i>Nanomaterials</i> , 2020, 10, 2253.	4.1	32
21	Development of a Templated Approach to Fabricate Diamond Patterns on Various Substrates. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 8894-8902.	8.0	31
22	Polypropylene-nanodiamond composite for hernia mesh. <i>Materials Science and Engineering C</i> , 2020, 111, 110780.	7.3	31
23	Additive Manufacturing of Sustainable Construction Materials and Form-finding Structures: A Review on Recent Progresses. <i>3D Printing and Additive Manufacturing</i> , 2022, 9, 12-34.	2.9	30
24	Diamond as a scaffold for bone growth. <i>Journal of Materials Science: Materials in Medicine</i> , 2013, 24, 849-861.	3.6	29
25	Nanodiamond-polycaprolactone composite: A new material for tissue engineering with sub-dermal imaging capabilities. <i>Materials Letters</i> , 2016, 185, 185-188.	2.6	28
26	3D-printed concrete with recycled glass: Effect of glass gradation on flexural strength and microstructure. <i>Construction and Building Materials</i> , 2022, 314, 125561.	7.2	25
27	Nanostructured biomedical selenium at the biological interface (Review). <i>Biointerphases</i> , 2018, 13, 06D301.	1.6	24
28	3D-Printed Diamond-Titanium Composite: A Hybrid Material for Implant Engineering. <i>ACS Applied Bio Materials</i> , 2020, 3, 29-36.	4.6	24
29	Fabrication of planarised conductively patterned diamond for bio-applications. <i>Materials Science and Engineering C</i> , 2014, 43, 135-144.	7.3	23
30	The influence of sterilization on nitrogen-included ultrananocrystalline diamond for biomedical applications. <i>Materials Science and Engineering C</i> , 2016, 61, 324-332.	7.3	23
31	Diamond encapsulated photovoltaics for transdermal power delivery. <i>Biosensors and Bioelectronics</i> , 2016, 77, 589-597.	10.1	22
32	Effects of polydopamine coatings on nucleation modes of surface mineralization from simulated body fluid. <i>Scientific Reports</i> , 2020, 10, 14982.	3.3	22
33	High Nanodiamond Content-PCL Composite for Tissue Engineering Scaffolds. <i>Nanomaterials</i> , 2020, 10, 948.	4.1	19
34	Surface modification of medical devices at nanoscale—recent development and translational perspectives. , 2019, , 163-189.		18
35	Novel hierarchical tantalum oxide-PDMS hybrid coating for medical implants: One pot synthesis, characterization and modulation of fibroblast proliferation. <i>Journal of Colloid and Interface Science</i> , 2017, 485, 106-115.	9.4	17
36	Bioprinting and Biofabrication with Peptide and Protein Biomaterials. <i>Advances in Experimental Medicine and Biology</i> , 2017, 1030, 95-129.	1.6	16

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37	<i>In vitro</i> cytotoxicity of iron oxide nanoparticles: effects of chitosan and polyvinyl alcohol as stabilizing agents. <i>Materials Research Express</i> , 2018, 5, 035051.	1.6	16
38	Immobilization of Antimicrobial Silver and Antioxidant Flavonoid as a Coating for Wound Dressing Materials. <i>International Journal of Nanomedicine</i> , 2019, Volume 14, 9929-9939.	6.7	15
39	Diamond in the Rough: Toward Improved Materials for the Bone-Implant Interface. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100007.	7.6	15
40	Ultra-high-density 3D DNA arrays within nanoporous biocompatible membranes for single-molecule-level detection and purification of circulating nucleic acids. <i>Nanoscale</i> , 2015, 7, 5998-6006.	5.6	14
41	Brazing techniques for the fabrication of biocompatible carbon-based electronic devices. <i>Carbon</i> , 2016, 107, 180-189.	10.3	14
42	Metallic additive manufacturing for bone-interfacing implants. <i>Biointerphases</i> , 2020, 15, 050801.	1.6	13
43	Diamond, Carbon Nanotubes and Graphene for Biomedical Applications. , 2019, , 97-107.		12
44	Liquid metal polymer composite: Flexible, conductive, biocompatible, and antimicrobial scaffold. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2022, 110, 1131-1139.	3.4	12
45	Nanocarbon-Coated Porous Anodic Alumina for Bionic Devices. <i>Materials</i> , 2015, 8, 4992-5006.	2.9	11
46	Diamond in medical devices and sensors: An overview of diamond surfaces. <i>Medical Devices & Sensors</i> , 2020, 3, e10127.	2.7	10
47	Fluorescent Nanodiamonds Embedded in Poly- μ -Caprolactone Fibers as Biomedical Scaffolds. <i>ACS Applied Nano Materials</i> , 2020, 3, 10814-10822.	5.0	10
48	High Fidelity Bidirectional Neural Interfacing with Carbon Fiber Microelectrodes Coated with Boron-Doped Carbon Nanowalls: An Acute Study. <i>Advanced Functional Materials</i> , 2020, 30, 2006101.	14.9	10
49	Progress towards 3D-printing diamond for medical implants: A review. <i>Annals of 3D Printed Medicine</i> , 2021, 1, 100002.	3.1	10
50	Highly uniform polycrystalline diamond coatings of three-dimensional structures. <i>Surface and Coatings Technology</i> , 2021, 408, 126815.	4.8	10
51	Development of a Magnetic Attachment Method for Bionic Eye Applications. <i>Artificial Organs</i> , 2016, 40, E12-24.	1.9	9
52	The role of CdCl ₂ treatments and annealing in the formation of sintered CdTe nanocrystal solar cells. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2019, 383, 1199-1202.	2.1	9
53	Multifunctional Sutures with Temperature Sensing and Infection Control. <i>Macromolecular Bioscience</i> , 2021, 21, e2000364.	4.1	8
54	Is there a future for additive manufactured titanium bioglass composites in biomedical application? A perspective. <i>Biointerphases</i> , 2020, 15, 068501.	1.6	8

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55	Evaluating magnesium alloy WE43 for bioresorbable coronary stent applications. MRS Advances, 2021, 6, 54-60.	0.9	7
56	Polycrystalline diamond coating on 3D printed titanium scaffolds: Surface characterisation and foreign body response. Materials Science and Engineering C, 2021, 130, 112467.	7.3	7
57	Single-Step Fabrication Method toward 3D Printing Composite Diamond-Titanium Interfaces for Neural Applications. ACS Applied Materials & Interfaces, 2021, 13, 31474-31484.	8.0	6
58	In vivo feasibility of epiretinal stimulation using ultrananocrystalline diamond electrodes. Journal of Neural Engineering, 2020, 17, 045014.	3.5	4
59	Iridescence and hydrophobicity have no clear delineation that explains flower petal micro-surface. Scientific Reports, 2020, 10, 10685.	3.3	4
60	Surface roughness. , 2021, , 179-213.		4
61	Osteoblast Cell Response on Polycrystalline Diamond-Coated Additively Manufactured Scaffolds. ACS Applied Bio Materials, 2021, 4, 7509-7516.	4.6	4
62	Hermetic fusion of diamond micro-components with silicon. Diamond and Related Materials, 2020, 108, 107972.	3.9	3
63	Bringing CT Scanners to the Skies: Design of a CT Scanner for an Air Mobile Stroke Unit. Applied Sciences (Switzerland), 2022, 12, 1560.	2.5	3
64	Design of a Patterned Diamond Substrate for Ordered Neural Cell Adhesion. Procedia Technology, 2015, 20, 206-211.	1.1	2
65	Suitability of nitinol electrodes in neural prostheses such as endovascular neural interfaces. , 2016, 2016, 4463-4466.		2
66	Coatings on metallic implants for biomedical applications. , 2020, , 359-385.		2
67	Electrospun Fibre Composite for Controlled Drug Release. MRS Advances, 2020, 5, 2409-2417.	0.9	2
68	Ethical considerations for engineers working in cybernetic implants. , 2013, , .		1
69	The Bionic Eye: a review of multielectrode arrays. , 0, , 294-312.		1
70	Design, Fabrication and Validation of a Precursor Pulsed Electromagnetic Field Device for Bone Fracture Repair. , 2018, 2018, 4166-4169.		1
71	Surgical mesh coatings for infection control and temperature sensing: An in-vitro investigation. OpenNano, 2021, 5, 100032.	4.8	1
72	Building a bionic eye. Physics World, 2011, 24, 44-45.	0.0	0