

Robert Kapsa

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

93 papers	3,173 citations	28 h-index	55 g-index
100 ext. papers	3,631 ext. citations	6 avg, IF	4.96 L-index

#	Paper	IF	Citations
93	Antifouling Strategies for Electrochemical Biosensing: Mechanisms and Performance toward Point of Care Based Diagnostic Applications. <i>ACS Sensors</i> , 2021 , 6, 1482-1507	9.2	28
92	Enhanced Electroactivity, Mechanical Properties, and Printability through the Addition of Graphene Oxide to Photo-Cross-linkable Gelatin Methacryloyl Hydrogel. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 2279-2295	5.5	6
91	Tuneable Hybrid Hydrogels via Complementary Self-Assembly of a Bioactive Peptide with a Robust Polysaccharide. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 3340-3350	5.5	11
90	Lubricin as a tool for controlling adhesion in vivo and ex vivo. <i>Biointerphases</i> , 2021 , 16, 020802	1.8	1
89	Cellular Interactions with Lubricin and Hyaluronic Acid-Lubricin Composite Coatings on Gold Electrodes in Passive and Electrically Stimulated Environments. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 3696-3708	5.5	1
88	Towards bioengineered skeletal muscle: recent developments in vitro and in vivo. <i>Essays in Biochemistry</i> , 2021 , 65, 555-567	7.6	1
87	Enhancing Peptide Biomaterials for Biofabrication. <i>Polymers</i> , 2021 , 13,	4.5	4
86	Potential Pulse-Facilitated Active Adsorption of Lubricin Polymer Brushes Can Both Accelerate Self-Assembly and Control Grafting Density. <i>Langmuir</i> , 2021 , 37, 11188-11193	4	0
85	Replace and repair: Biomimetic bioprinting for effective muscle engineering. <i>APL Bioengineering</i> , 2021 , 5, 031502	6.6	4
84	Free-form co-axial bioprinting of a gelatin methacryloyl bio-ink by direct in situ photo-crosslinking during extrusion. <i>Bioprinting</i> , 2020 , 19, e00087	7	11
83	Wet-Spun Trojan Horse Cell Constructs for Engineering Muscle. <i>Frontiers in Chemistry</i> , 2020 , 8, 18	5	8
82	Lubricin (PRG4) Antiadhesive Coatings Mitigate Electrochemical Impedance Instabilities in Polypyrrole Bionic Electrodes Exposed to Fouling Fluids.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 8032-8039	4.1	2
81	Tuning drug dosing through matching optically active polymer composition and NIR stimulation parameters. <i>International Journal of Pharmaceutics</i> , 2020 , 575, 118976	6.5	
80	Self-Assembly of Lubricin (PRG-4) Brushes on Graphene Oxide Affords Stable 2D-Nanosheets in Concentrated Electrolytes and Complex Fluids. <i>ACS Applied Nano Materials</i> , 2020 , 3, 11527-11542	5.6	2
79	A Simple Electrochemical Swab Assay for the Rapid Quantification of Clonazepam in Unprocessed Saliva Enabled by Lubricin Antifouling Coatings. <i>ChemElectroChem</i> , 2020 , 7, 2851-2858	4.3	7
78	3D Bioprinting and Differentiation of Primary Skeletal Muscle Progenitor Cells. <i>Methods in Molecular Biology</i> , 2020 , 2140, 229-242	1.4	7
77	A simple technique for development of fibres with programmable microsphere concentration gradients for local protein delivery. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 556-565	7.3	2

76	Electrical Cell Stimulation: Fabrication of a Biocompatible Liquid Crystal Graphene Oxide-Gold Nanorods Electro- and Photoactive Interface for Cell Stimulation (Adv. Healthcare Mater. 9/2019). <i>Advanced Healthcare Materials</i> , 2019 , 8, 1970036	10.1	
75	Fabrication of a Biocompatible Liquid Crystal Graphene Oxide-Gold Nanorods Electro- and Photoactive Interface for Cell Stimulation. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1801321	10.1	12
74	Lubricin on Platinum Electrodes: A Low-Impedance Protein-Resistant Surface Towards Biomedical Implantation. <i>ChemElectroChem</i> , 2019 , 6, 1939-1943	4.3	15
73	Controlled release from PCL-alginate microspheres via secondary encapsulation using GelMA/HAMA hydrogel scaffolds. <i>Soft Matter</i> , 2019 , 15, 3779-3787	3.6	11
72	Strategies for neural control of prosthetic limbs: from electrode interfacing to 3D printing. <i>Materials</i> , 2019 , 12,	3.5	8
71	Adhesion and Self-Assembly of Lubricin (PRG4) Brush Layers on Different Substrate Surfaces. <i>Langmuir</i> , 2019 , 35, 15834-15848	4	9
70	Tailoring the mechanical properties of gelatin methacryloyl hydrogels through manipulation of the photocrosslinking conditions. <i>Soft Matter</i> , 2018 , 14, 2142-2151	3.6	76
69	Engineering skeletal muscle - from two to three dimensions. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018 , 12, e1-e6	4.4	13
68	Three-dimensional neural cultures produce networks that mimic native brain activity. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018 , 12, 490-493	4.4	20
67	Electrical Stimulation Using Conductive Polymer Polypyrrole Counters Reduced Neurite Outgrowth of Primary Prefrontal Cortical Neurons from NRG1-KO and DISC1-LI Mice. <i>Scientific Reports</i> , 2017 , 7, 42525	4.9	21
66	In vivo biocompatibility of porous and non-porous polypyrrole based trilayered actuators. <i>Journal of Materials Science: Materials in Medicine</i> , 2017 , 28, 172	4.5	6
65	Handheld Co-Axial Bioprinting: Application to in situ surgical cartilage repair. <i>Scientific Reports</i> , 2017 , 7, 5837	4.9	109
64	Cell compatible encapsulation of filaments into 3D hydrogels. <i>Biofabrication</i> , 2016 , 8, 025013	10.5	3
63	Preparation, characterisation, and in vitro evaluation of electrically conducting poly(e-caprolactone)-based nanocomposite scaffolds using PC12 cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2016 , 104, 853-65	5.4	30
62	Development of the Biopen: a handheld device for surgical printing of adipose stem cells at a chondral wound site. <i>Biofabrication</i> , 2016 , 8, 015019	10.5	136
61	Conductive composite fibres from reduced graphene oxide and polypyrrole nanoparticles. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 1142-1149	7.3	28
60	Combination of agrin and laminin increase acetylcholine receptor clustering and enhance functional neuromuscular junction formation In vitro. <i>Developmental Neurobiology</i> , 2016 , 76, 551-65	3.2	18
59	Use of conducting polymers to facilitate neurite branching in schizophrenia-related neuronal development. <i>Biomaterials Science</i> , 2016 , 4, 1244-51	7.4	6

58	Functional 3D Neural Mini-Tissues from Printed Gel-Based Bioink and Human Neural Stem Cells. <i>Advanced Healthcare Materials</i> , 2016 , 5, 1429-38	10.1	237
57	Correlation of Impedance and Effective Electrode Area of Dextran Sulfate Doped PEDOT Modified Electrodes. <i>Journal of the Electrochemical Society</i> , 2016 , 163, H534-H540	3.9	5
56	Is a Last Chance Treatment Possible After an Irreversible Brain Intervention?. <i>AJOB Neuroscience</i> , 2015 , 6, W1-W2	0.8	6
55	Electrical stimulation using conductive polymer polypyrrole promotes differentiation of human neural stem cells: a biocompatible platform for translational neural tissue engineering. <i>Tissue Engineering - Part C: Methods</i> , 2015 , 21, 385-93	2.9	122
54	From nanoparticles to fibres: effect of dispersion composition on fibre properties. <i>Journal of Nanoparticle Research</i> , 2015 , 17, 1	2.3	2
53	Correlation of the impedance and effective electrode area of doped PEDOT modified electrodes for brain-machine interfaces. <i>Analyst, The</i> , 2015 , 140, 3164-74	5	19
52	Optical and electrochemical methods for determining the effective area and charge density of conducting polymer modified electrodes for neural stimulation. <i>Analytical Chemistry</i> , 2015 , 87, 738-46	7.8	21
51	"To measure is to know": how advances in image analysis are supporting neural repair strategies. <i>Neural Regeneration Research</i> , 2015 , 10, 1040-2	4.5	
50	Controlling Brain Cells With Light: Ethical Considerations for Optogenetic Clinical Trials. <i>AJOB Neuroscience</i> , 2014 , 5, 3-11	0.8	68
49	Recent advances in nerve tissue engineering. <i>International Journal of Artificial Organs</i> , 2014 , 37, 277-91	1.9	40
48	Automated quantification of neurite outgrowth orientation distributions on patterned surfaces. <i>Journal of Neural Engineering</i> , 2014 , 11, 046006	5	4
47	Influence of Biodopants on PEDOT Biomaterial Polymers: Using QCM-D to Characterize Polymer Interactions with Proteins and Living Cells. <i>Advanced Materials Interfaces</i> , 2014 , 1, 1300122	4.6	42
46	In vitro growth and differentiation of primary myoblasts on thiophene based conducting polymers. <i>Biomaterials Science</i> , 2013 , 1, 983-995	7.4	13
45	Conducting polymer coated neural recording electrodes. <i>Journal of Neural Engineering</i> , 2013 , 10, 016004	5	84
44	Bio-ink properties and printability for extrusion printing living cells. <i>Biomaterials Science</i> , 2013 , 1, 763-773	7.4	371
43	Incorporating Biodopants into PEDOT Conducting Polymers: Impact of Biodopant on polymer properties and biocompatibility. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1569, 225-230		5
42	Efficacy Testing as a Primary Purpose of Phase 1 Clinical Trials: Is it Applicable to First-in-Human Bionics and Optogenetics Trials?. <i>AJOB Neuroscience</i> , 2012 , 3, 20-22	0.8	10
41	Electrical stimulation of myoblast proliferation and differentiation on aligned nanostructured conductive polymer platforms. <i>Advanced Healthcare Materials</i> , 2012 , 1, 801-8	10.1	55

40	Fibronectin and bovine serum albumin adsorption and conformational dynamics on inherently conducting polymers: a QCM-D study. <i>Langmuir</i> , 2012 , 28, 8433-45	4	116
39	Medical Bionics 2012 , 1-39		
38	Organic Conducting Polymers 2012 , 81-112		5
37	Materials Processing/Device Fabrication 2012 , 151-210		
36	Carbon 2012 , 41-79		
35	Organic Conductors [Biological Applications 2012 , 113-150		
34	Organic Bionics [Where are we? Where do we go now? 2012 , 211-220		
33	Inhibition of smooth muscle cell adhesion and proliferation on heparin-doped polypyrrole. <i>Acta Biomaterialia</i> , 2012 , 8, 194-200	10.8	53
32	Myo-regenerative Scaffolds: Electrical Stimulation of Myoblast Proliferation and Differentiation on Aligned Nanostructured Conductive Polymer Platforms (Adv. Healthcare Mater. 6/2012). <i>Advanced Healthcare Materials</i> , 2012 , 1, 815-815	10.1	
31	2012 ,		21
30	Creating conductive structures for cell growth: growth and alignment of myogenic cell types on polythiophenes. <i>Journal of Biomedical Materials Research - Part A</i> , 2010 , 95, 256-68	5.4	52
29	Wet-Spun Biodegradable Fibers on Conducting Platforms: Novel Architectures for Muscle Regeneration. <i>Advanced Functional Materials</i> , 2009 , 19, 3381-3388	15.6	49
28	A conducting-polymer platform with biodegradable fibers for stimulation and guidance of axonal growth. <i>Advanced Materials</i> , 2009 , 21, 4393-7	24	121
27	Nerve repair: a conducting-polymer platform with biodegradable fibers for stimulation and guidance of axonal growth (adv. Mater. 43/2009). <i>Advanced Materials</i> , 2009 , 21,	24	2
26	Skeletal muscle cell proliferation and differentiation on polypyrrole substrates doped with extracellular matrix components. <i>Biomaterials</i> , 2009 , 30, 5292-304	15.6	187
25	Electroporation of corrective nucleic acids (CNA) in vivo to promote gene correction in dystrophic muscle. <i>Methods in Molecular Biology</i> , 2008 , 423, 405-19	1.4	1
24	Evaluation of Sca-1 and c-Kit as selective markers for muscle remodelling by nonhemopoietic bone marrow cells. <i>Stem Cells</i> , 2007 , 25, 1364-74	5.8	13
23	Effective detection of corrected dystrophin loci in mdx mouse myogenic precursors. <i>Human Mutation</i> , 2007 , 28, 816-23	4.7	19

22	The effect of polypyrrole with incorporated neurotrophin-3 on the promotion of neurite outgrowth from auditory neurons. <i>Biomaterials</i> , 2007 , 28, 513-23	15.6	199
21	Therapeutic DNA Delivery to Skeletal Muscle. <i>Current Genomics</i> , 2006 , 7, 179-190	2.6	1
20	DNA electroporation in vivo targets mature fibres in dystrophic mdx muscle. <i>Neuromuscular Disorders</i> , 2005 , 15, 630-41	2.9	14
19	Oligonucleotide-based gene targeting approaches. <i>Oligonucleotides</i> , 2004 , 14, 157-8; author reply 158-60		10
18	Novel therapies for Duchenne muscular dystrophy. <i>Lancet Neurology, The</i> , 2003 , 2, 299-310	24.1	60
17	Targeted gene correction in the mdx mouse using short DNA fragments: towards application with bone marrow-derived cells for autologous remodeling of dystrophic muscle. <i>Gene Therapy</i> , 2002 , 9, 695-4		30
16	Platelet alpha- and gamma-synucleins in Parkinson's disease and normal control subjects. <i>Journal of Alzheimer's Disease</i> , 2002 , 4, 309-15	4.3	41
15	Presymptomatic motor neuron loss and reactive astrogliosis in the SOD1 mouse model of amyotrophic lateral sclerosis. <i>Muscle and Nerve</i> , 2001 , 24, 1510-9	3.4	45
14	In vivo and in vitro correction of the mdx dystrophin gene nonsense mutation by short-fragment homologous replacement. <i>Human Gene Therapy</i> , 2001 , 12, 629-42	4.8	79
13	A novel clinical phenotype of myopathy, sensorimotor neuropathy, infertility, and hypogonadism with multiple mitochondrial DNA deletions. <i>Journal of Clinical Neuromuscular Disease</i> , 2001 , 3, 77-82	1.1	6
12	Mitochondrial respiratory chain activity in idiopathic dilated cardiomyopathy. <i>Journal of Cardiac Failure</i> , 2000 , 6, 47-55	3.3	70
11	Detection of MELAS A3243G point mutation in muscle, blood and hair follicles. <i>Journal of the Neurological Sciences</i> , 1998 , 161, 36-9	3.2	72
10	mtDNA replicative potential remains constant during ageing: polymerase gamma activity does not correlate with age related cytochrome oxidase activity decline in platelets. <i>Nucleic Acids Research</i> , 1998 , 26, 4365-73	20.1	8
9	Developmental genetics of deleted mtDNA in mitochondrial oculomyopathy. <i>Journal of the Neurological Sciences</i> , 1997 , 145, 155-62	3.2	12
8	The polymerase chain reaction in the study of mitochondrial genetics. <i>Journal of Proteomics</i> , 1997 , 36, 31-50		4
7	Mitochondrial DNA polymorphism in substantia nigra. <i>Journal of the Neurological Sciences</i> , 1996 , 144, 204-11	3.2	20
6	Mitochondrial DNA polymorphism in disease: a possible contributor to respiratory dysfunction. <i>Human Molecular Genetics</i> , 1994 , 3, 1973-81	5.6	31
5	A novel mtDNA deletion in an infant with Pearson syndrome. <i>Journal of Inherited Metabolic Disease</i> , 1994 , 17, 521-6	5.4	15

4	Rapid and noninvasive screening of patients with mitochondrial myopathy. <i>Human Mutation</i> , 1994 , 4, 132-5	4.7	28
3	Normal variants of human mitochondrial DNA and translation products: the building of a reference data base. <i>Human Genetics</i> , 1991 , 88, 139-45	6.3	65
2	Hybrid Self-Assembling Peptide/Gelatin Methacrylate (GelMA) Bioink Blend for Improved Bioprintability and Primary Myoblast Response. <i>Advanced NanoBiomed Research</i> , 2100106	0	1
1	Traction of 3D and 4D Printing in the Healthcare Industry: From Drug Delivery and Analysis to Regenerative Medicine. <i>ACS Biomaterials Science and Engineering</i> ,	5.5	2