

Robert Kapsa

List of Publications by Citations

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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	Bio-ink properties and printability for extrusion printing living cells. <i>Biomaterials Science</i> , 2013 , 1, 763-773	7.4	371
92	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
91	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
90	Skeletal muscle cell proliferation and differentiation on polypyrrole substrates doped with extracellular matrix components. <i>Biomaterials</i> , 2009 , 30, 5292-304	15.6	187
89	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
88	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
87	A conducting-polymer platform with biodegradable fibers for stimulation and guidance of axonal growth. <i>Advanced Materials</i> , 2009 , 21, 4393-7	24	121
86	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
85	Handheld Co-Axial Bioprinting: Application to in situ surgical cartilage repair. <i>Scientific Reports</i> , 2017 , 7, 5837	4.9	109
84	Conducting polymer coated neural recording electrodes. <i>Journal of Neural Engineering</i> , 2013 , 10, 016004	5	84
83	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
82	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
81	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
80	Mitochondrial respiratory chain activity in idiopathic dilated cardiomyopathy. <i>Journal of Cardiac Failure</i> , 2000 , 6, 47-55	3.3	70
79	Controlling Brain Cells With Light: Ethical Considerations for Optogenetic Clinical Trials. <i>AJOB Neuroscience</i> , 2014 , 5, 3-11	0.8	68
78	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
77	Novel therapies for Duchenne muscular dystrophy. <i>Lancet Neurology</i> , 2003 , 2, 299-310	24.1	60

76	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
75	Inhibition of smooth muscle cell adhesion and proliferation on heparin-doped polypyrrole. <i>Acta Biomaterialia</i> , 2012 , 8, 194-200	10.8	53
74	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
73	Wet-Spun Biodegradable Fibers on Conducting Platforms: Novel Architectures for Muscle Regeneration. <i>Advanced Functional Materials</i> , 2009 , 19, 3381-3388	15.6	49
72	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
71	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
70	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
69	Recent advances in nerve tissue engineering. <i>International Journal of Artificial Organs</i> , 2014 , 37, 277-91	1.9	40
68	Mitochondrial DNA polymorphism in disease: a possible contributor to respiratory dysfunction. <i>Human Molecular Genetics</i> , 1994 , 3, 1973-81	5.6	31
67	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
66	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, 695-9	4	30
65	Conductive composite fibres from reduced graphene oxide and polypyrrole nanoparticles. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 1142-1149	7.3	28
64	Rapid and noninvasive screening of patients with mitochondrial myopathy. <i>Human Mutation</i> , 1994 , 4, 132-5	4.7	28
63	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
62	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
61	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
60	2012,		21
59	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

58	Mitochondrial DNA polymorphism in substantia nigra. <i>Journal of the Neurological Sciences</i> , 1996 , 144, 204-11	3.2	20
57	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
56	Effective detection of corrected dystrophin loci in mdx mouse myogenic precursors. <i>Human Mutation</i> , 2007 , 28, 816-23	4.7	19
55	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
54	Lubricin on Platinum Electrodes: A Low-Impedance Protein-Resistant Surface Towards Biomedical Implantation. <i>ChemElectroChem</i> , 2019 , 6, 1939-1943	4.3	15
53	A novel mtDNA deletion in an infant with Pearson syndrome. <i>Journal of Inherited Metabolic Disease</i> , 1994 , 17, 521-6	5.4	15
52	DNA electroporation in vivo targets mature fibres in dystrophic mdx muscle. <i>Neuromuscular Disorders</i> , 2005 , 15, 630-41	2.9	14
51	Engineering skeletal muscle - from two to three dimensions. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018 , 12, e1-e6	4.4	13
50	In vitro growth and differentiation of primary myoblasts on thiophene based conducting polymers. <i>Biomaterials Science</i> , 2013 , 1, 983-995	7.4	13
49	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
48	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
47	Developmental genetics of deleted mtDNA in mitochondrial oculomyopathy. <i>Journal of the Neurological Sciences</i> , 1997 , 145, 155-62	3.2	12
46	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
45	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
44	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
43	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
42	Oligonucleotide-based gene targeting approaches. <i>Oligonucleotides</i> , 2004 , 14, 157-8; author reply 158-60		10
41	Adhesion and Self-Assembly of Lubricin (PRG4) Brush Layers on Different Substrate Surfaces. <i>Langmuir</i> , 2019 , 35, 15834-15848	4	9

40	Wet-Spun Trojan Horse Cell Constructs for Engineering Muscle. <i>Frontiers in Chemistry</i> , 2020 , 8, 18	5	8
39	Strategies for neural control of prosthetic limbs: from electrode interfacing to 3D printing. <i>Materials</i> , 2019 , 12,	3.5	8
38	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
37	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
36	3D Bioprinting and Differentiation of Primary Skeletal Muscle Progenitor Cells. <i>Methods in Molecular Biology</i> , 2020 , 2140, 229-242	1.4	7
35	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
34	Is a Last Chance Treatment Possible After an Irreversible Brain Intervention?. <i>AJOB Neuroscience</i> , 2015 , 6, W1-W2	0.8	6
33	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
32	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
31	Use of conducting polymers to facilitate neurite branching in schizophrenia-related neuronal development. <i>Biomaterials Science</i> , 2016 , 4, 1244-51	7.4	6
30	Organic Conducting Polymers 2012 , 81-112		5
29	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
28	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
27	Automated quantification of neurite outgrowth orientation distributions on patterned surfaces. <i>Journal of Neural Engineering</i> , 2014 , 11, 046006	5	4
26	The polymerase chain reaction in the study of mitochondrial genetics. <i>Journal of Proteomics</i> , 1997 , 36, 31-50		4
25	Enhancing Peptide Biomaterials for Biofabrication. <i>Polymers</i> , 2021 , 13,	4.5	4
24	Replace and repair: Biomimetic bioprinting for effective muscle engineering. <i>APL Bioengineering</i> , 2021 , 5, 031502	6.6	4
23	Cell compatible encapsulation of filaments into 3D hydrogels. <i>Biofabrication</i> , 2016 , 8, 025013	10.5	3

22	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
21	From nanoparticles to fibres: effect of dispersion composition on fibre properties. <i>Journal of Nanoparticle Research</i> , 2015 , 17, 1	2.3	2
20	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
19	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
18	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
17	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
16	Therapeutic DNA Delivery to Skeletal Muscle. <i>Current Genomics</i> , 2006 , 7, 179-190	2.6	1
15	Hybrid Self-Assembling Peptide/Gelatin Methacrylate (GelMA) Bioink Blend for Improved Bioprintability and Primary Myoblast Response. <i>Advanced NanoBiomed Research</i> , 2100106	0	1
14	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
13	Lubricin as a tool for controlling adhesion in vivo and ex vivo. <i>Biointerphases</i> , 2021 , 16, 020802	1.8	1
12	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
11	Towards bioengineered skeletal muscle: recent developments in vitro and in vivo. <i>Essays in Biochemistry</i> , 2021 , 65, 555-567	7.6	1
10	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
9	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	
8	Medical Bionics 2012 , 1-39		
7	Materials Processing/Device Fabrication 2012 , 151-210		
6	Carbon 2012 , 41-79		
5	Organic Conductors [Biological Applications 2012 , 113-150		

4 Organic Bionics [Where are we? Where do we go now? **2012**, 211-220

3 Myo-regenerative Scaffolds: Electrical Stimulation of Myoblast Proliferation and Differentiation on Aligned Nanostructured Conductive Polymer Platforms (Adv. Healthcare Mater. 6/2012). *Advanced Healthcare Materials*, **2012**, 1, 815-815 10.1

2 "To measure is to know": how advances in image analysis are supporting neural repair strategies. *Neural Regeneration Research*, **2015**, 10, 1040-2 4.5

1 Tuning drug dosing through matching optically active polymer composition and NIR stimulation parameters. *International Journal of Pharmaceutics*, **2020**, 575, 118976 6.5