

Kapil Dev Patel

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

2,652
citations

172207

29
h-index

182168

51
g-index

54
all docs

54
docs citations

54
times ranked

3735
citing authors

#	ARTICLE	IF	CITATIONS
1	Multifunctional GelMA platforms with nanomaterials for advanced tissue therapeutics. <i>Bioactive Materials</i> , 2022, 8, 267-295.	8.6	153
2	Recent advances in drug delivery systems for glaucoma treatment. <i>Materials Today Nano</i> , 2022, 18, 100178.	2.3	18
3	Harnessing the Therapeutic Potential of Extracellular Vesicles for Biomedical Applications Using Multifunctional Magnetic Nanomaterials. <i>Small</i> , 2022, 18, e2104783.	5.2	31
4	Manipulating Nanoparticle Aggregates Regulates Receptor-Ligand Binding in Macrophages. <i>Journal of the American Chemical Society</i> , 2022, 144, 5769-5783.	6.6	28
5	Submolecular Ligand Size and Spacing for Cell Adhesion. <i>Advanced Materials</i> , 2022, 34, e2110340.	11.1	13
6	Tuning the properties of inorganic nanomaterials for theranostic applications in infectious diseases: Carbon nanotubes, quantum dots, graphene, and mesoporous carbon nanoparticles. , 2022, , 319-352.		2
7	Comparative study of photoinitiators for the synthesis and 3D printing of a light-curable, degradable polymer for custom-fit hard tissue implants. <i>Biomedical Materials (Bristol)</i> , 2021, 16, 015007.	1.7	7
8	Three dimensional porous scaffolds derived from collagen, elastin and fibrin proteins orchestrate adipose tissue regeneration. <i>Journal of Tissue Engineering</i> , 2021, 12, 204173142110192.	2.3	20
9	The Effect of Selenium Nanoparticles on the Osteogenic Differentiation of MC3T3-E1 Cells. <i>Nanomaterials</i> , 2021, 11, 557.	1.9	18
10	Utilization of <scp>GelMA</scp> with phosphate glass fibers for glial cell alignment. <i>Journal of Biomedical Materials Research - Part A</i> , 2021, 109, 2212-2224.	2.1	11
11	The eggshell membrane: A potential biomaterial for corneal wound healing. <i>Journal of Biomaterials Applications</i> , 2021, 36, 912-929.	1.2	19
12	Immunoregulation of Macrophages by Controlling Winding and Unwinding of Nanohelical Ligands. <i>Advanced Functional Materials</i> , 2021, 31, 2103409.	7.8	19
13	Selenium Nanoparticles as Candidates for Antibacterial Substitutes and Supplements against Multidrug-Resistant Bacteria. <i>Biomolecules</i> , 2021, 11, 1028.	1.8	30
14	Advances in Engineered Polymer Nanoparticle Tracking Platforms towards Cancer Immunotherapy-Current Status and Future Perspectives. <i>Vaccines</i> , 2021, 9, 935.	2.1	18
15	Magnetic Control and Real-Time Monitoring of Stem Cell Differentiation by the Ligand Nanoassembly. <i>Small</i> , 2021, 17, e2102892.	5.2	22
16	Basic concepts and fundamental insights into electrospinning. , 2021, , 3-43.		2
17	A Study on Myogenesis by Regulation of Reactive Oxygen Species and Cytotoxic Activity by Selenium Nanoparticles. <i>Antioxidants</i> , 2021, 10, 1727.	2.2	7
18	Biological Effects of Tricalcium Silicate Nanoparticle-Containing Cement on Stem Cells from Human Exfoliated Deciduous Teeth. <i>Nanomaterials</i> , 2020, 10, 1373.	1.9	13

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19	Physical Properties and Biofunctionalities of Bioactive Root Canal Sealers In Vitro. <i>Nanomaterials</i> , 2020, 10, 1750.	1.9	26
20	Molecularly Imprinted Polymers and Electrospinning: Manufacturing Convergence for Next-Level Applications. <i>Advanced Functional Materials</i> , 2020, 30, 2001955.	7.8	47
21	Coating biopolymer nanofibers with carbon nanotubes accelerates tissue healing and bone regeneration through orchestrated cell- and tissue-regulatory responses. <i>Acta Biomaterialia</i> , 2020, 108, 97-110.	4.1	75
22	Nano-graphene oxide/polyurethane nanofibers: mechanically flexible and myogenic stimulating matrix for skeletal tissue engineering. <i>Journal of Tissue Engineering</i> , 2020, 11, 204173141990042.	2.3	51
23	Label-Free Fluorescent Mesoporous Bioglass for Drug Delivery, Optical Triple-Mode Imaging, and Photothermal/Photodynamic Synergistic Cancer Therapy. <i>ACS Applied Bio Materials</i> , 2020, 3, 2218-2229.	2.3	33
24	Combined Effects of Nanoroughness and Ions Produced by Electrodeposition of Mesoporous Bioglass Nanoparticle for Bone Regeneration. <i>ACS Applied Bio Materials</i> , 2019, 2, 5190-5203.	2.3	29
25	Carbon nanotube incorporation in PMMA to prevent microbial adhesion. <i>Scientific Reports</i> , 2019, 9, 4921.	1.6	49
26	Carbon-based nanomaterials as an emerging platform for theranostics. <i>Materials Horizons</i> , 2019, 6, 434-469.	6.4	310
27	Combinatory Cancer Therapeutics with Nanoceria-Capped Mesoporous Silica Nanocarriers through pH-triggered Drug Release and Redox Activity. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 288-299.	4.0	52
28	Electrophoretic coatings of hydroxyapatite with various nanocrystal shapes. <i>Materials Letters</i> , 2019, 234, 148-154.	1.3	36
29	Silk fibroin/collagen protein hybrid cell-encapsulating hydrogels with tunable gelation and improved physical and biological properties. <i>Acta Biomaterialia</i> , 2018, 69, 218-233.	4.1	91
30	Nano-graphene oxide incorporated into PMMA resin to prevent microbial adhesion. <i>Dental Materials</i> , 2018, 34, e63-e72.	1.6	111
31	Progress in Nanotheranostics Based on Mesoporous Silica Nanomaterial Platforms. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 10309-10337.	4.0	111
32	Optical imaging and anticancer chemotherapy through carbon dot created hollow mesoporous silica nanoparticles. <i>Acta Biomaterialia</i> , 2017, 55, 466-480.	4.1	67
33	C-Dot Generated Bioactive Organosilica Nanospheres in Theranostics: Multicolor Luminescent and Photothermal Properties Combined with Drug Delivery Capacity. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 24433-24444.	4.0	44
34	Delivery of Small Genetic Molecules through Hollow Porous Nanoparticles Silences Target Gene and in Turn Stimulates Osteoblastic Differentiation. <i>Particle and Particle Systems Characterization</i> , 2016, 33, 878-886.	1.2	5
35	Osteopromoting Reservoir of Stem Cells: Bioactive Mesoporous Nanocarrier/Collagen Gel through Slow-Releasing FGF18 and the Activated BMP Signaling. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 27573-27584.	4.0	35
36	Nanohybrid Electro-Coatings Toward Therapeutic Implants with Controlled Drug Delivery Potential for Bone Regeneration. <i>Journal of Biomedical Nanotechnology</i> , 2016, 12, 1876-1889.	0.5	10

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37	Biocompatible Mesoporous Nanotubular Structured Surface to Control Cell Behaviors and Deliver Bioactive Molecules. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 26850-26859.	4.0	19
38	Novel magnetic nanocomposite injectables: calcium phosphate cements impregnated with ultrafine magnetic nanoparticles for bone regeneration. <i>RSC Advances</i> , 2015, 5, 13411-13419.	1.7	55
39	Smart multifunctional drug delivery towards anticancer therapy harmonized in mesoporous nanoparticles. <i>Nanoscale</i> , 2015, 7, 14191-14216.	2.8	153
40	Mesoporous Silica-Layered Biopolymer Hybrid Nanofibrous Scaffold: A Novel Nanobiomatrix Platform for Therapeutics Delivery and Bone Regeneration. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 8088-8098.	4.0	87
41	Preparation of Self-Activated Fluorescence Mesoporous Silica Hollow Nanoellipsoids for Theranostics. <i>Langmuir</i> , 2015, 31, 11344-11352.	1.6	24
42	Novel Hybrid Nanorod Carriers of Fluorescent Hydroxyapatite Shelled with Mesoporous Silica Effective for Drug Delivery and Cell Imaging. <i>Journal of the American Ceramic Society</i> , 2014, 97, 3071-3076.	1.9	23
43	Nanostructured Biointerfacing of Metals with Carbon Nanotube/Chitosan Hybrids by Electrodeposition for Cell Stimulation and Therapeutics Delivery. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 20214-20224.	4.0	42
44	Luminescent mesoporous nanoreservoirs for the effective loading and intracellular delivery of therapeutic drugs. <i>Acta Biomaterialia</i> , 2014, 10, 1431-1442.	4.1	35
45	Multifunctional Hybrid Nanocarrier: Magnetic CNTs Ensheathed with Mesoporous Silica for Drug Delivery and Imaging System. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 2201-2208.	4.0	101
46	A novel therapeutic design of microporous-structured biopolymer scaffolds for drug loading and delivery. <i>Acta Biomaterialia</i> , 2014, 10, 1238-1250.	4.1	48
47	Development of biocompatible apatite nanorod-based drug-delivery system with in situ fluorescence imaging capacity. <i>Journal of Materials Chemistry B</i> , 2014, 2, 2039.	2.9	45
48	Tailoring solubility and drug release from electrophoretic deposited chitosan-gelatin films on titanium. <i>Surface and Coatings Technology</i> , 2014, 242, 232-236.	2.2	39
49	Potential of Magnetic Nanofiber Scaffolds with Mechanical and Biological Properties Applicable for Bone Regeneration. <i>PLoS ONE</i> , 2014, 9, e91584.	1.1	147
50	Chitosan-nanobioactive glass electrophoretic coatings with bone regenerative and drug delivering potential. <i>Journal of Materials Chemistry</i> , 2012, 22, 24945.	6.7	85
51	Biocompatible magnetite nanoparticles with varying silica-coating layer for use in biomedicine: Physicochemical and magnetic properties, and cellular compatibility. <i>Journal of Biomedical Materials Research - Part A</i> , 2012, 100A, 1734-1742.	2.1	101
52	A novel preparation of magnetic hydroxyapatite nanotubes. <i>Materials Letters</i> , 2012, 75, 130-133.	1.3	33