

Taoran Tian

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

2,576
citations

136950

32
h-index

197818

49
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54
all docs

54
docs citations

54
times ranked

1858
citing authors

#	ARTICLE	IF	CITATIONS
1	Design, fabrication and applications of tetrahedral DNA nanostructure-based multifunctional complexes in drug delivery and biomedical treatment. <i>Nature Protocols</i> , 2020, 15, 2728-2757.	12.0	211
2	Functionalizing Framework Nucleic Acid-Based Nanostructures for Biomedical Application. <i>Advanced Materials</i> , 2022, 34, e2107820.	21.0	148
3	Anti-inflammatory activity of curcumin-loaded tetrahedral framework nucleic acids on acute gouty arthritis. <i>Bioactive Materials</i> , 2022, 8, 368-380.	15.6	142
4	The fabrication of biomimetic biphasic CAN-PAC hydrogel with a seamless interfacial layer applied in osteochondral defect repair. <i>Bone Research</i> , 2017, 5, 17018.	11.4	127
5	Anti-inflammatory and Antioxidative Effects of Tetrahedral DNA Nanostructures via the Modulation of Macrophage Responses. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 3421-3430.	8.0	121
6	Advances in biological applications of self-assembled DNA tetrahedral nanostructures. <i>Materials Today</i> , 2019, 24, 57-68.	14.2	114
7	Electrospun Poly(3-hydroxybutyrate-co-4-hydroxybutyrate)/Graphene Oxide Scaffold: Enhanced Properties and Promoted in Vivo Bone Repair in Rats. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 42589-42600.	8.0	99
8	Facilitating In Situ Tumor Imaging with a Tetrahedral DNA Framework-Enhanced Hybridization Chain Reaction Probe. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	93
9	A Lysosome-Activated Tetrahedral Nanobox for Encapsulated siRNA Delivery. <i>Advanced Materials</i> , 2022, 34, e2201731.	21.0	79
10	Bioswitchable Delivery of microRNA by Framework Nucleic Acids: Application to Bone Regeneration. <i>Small</i> , 2021, 17, e2104359.	10.0	70
11	Effect of tetrahedral DNA nanostructures on proliferation and osteo/odontogenic differentiation of dental pulp stem cells via activation of the notch signaling pathway. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018, 14, 1227-1236.	3.3	67
12	A Framework Nucleic Acid Based Robotic Nanobee for Active Targeting Therapy. <i>Advanced Functional Materials</i> , 2021, 31, 2007342.	14.9	65
13	Prospects and challenges of dynamic DNA nanostructures in biomedical applications. <i>Bone Research</i> , 2022, 10, .	11.4	64
14	The protective effect of tetrahedral framework nucleic acids on periodontium under inflammatory conditions. <i>Bioactive Materials</i> , 2021, 6, 1676-1688.	15.6	63
15	Synthesis of an ethyleneimine/tetrahedral DNA nanostructure complex and its potential application as a multi-functional delivery vehicle. <i>Nanoscale</i> , 2017, 9, 18402-18412.	5.6	62
16	Effects of tetrahedral DNA nanostructures on autophagy in chondrocytes. <i>Chemical Communications</i> , 2018, 54, 1327-1330.	4.1	62
17	Vascularization in Craniofacial Bone Tissue Engineering. <i>Journal of Dental Research</i> , 2018, 97, 969-976.	5.2	58
18	Angiogenesis in a 3D model containing adipose tissue stem cells and endothelial cells is mediated by canonical Wnt signaling. <i>Bone Research</i> , 2017, 5, 17048.	11.4	52

#	ARTICLE	IF	CITATIONS
19	Tetrahedral Framework Nucleic Acids Loaded with Aptamer AS1411 for siRNA Delivery and Gene Silencing in Malignant Melanoma. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 6109-6118.	8.0	52
20	Tetrahedral framework nucleic acids act as antioxidants in acute kidney injury treatment. <i>Chemical Engineering Journal</i> , 2021, 413, 127426.	12.7	51
21	Stiffness regulates the proliferation and osteogenic/odontogenic differentiation of human dental pulp stem cells via the WNT signalling pathway. <i>Cell Proliferation</i> , 2018, 51, e12435.	5.3	50
22	Erythromycin loaded by tetrahedral framework nucleic acids are more antimicrobial sensitive against <i>Escherichia coli</i> (E. coli). <i>Bioactive Materials</i> , 2021, 6, 2281-2290.	15.6	49
23	Fabrication of Calcium Phosphate Microflowers and Their Extended Application in Bone Regeneration. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 30437-30447.	8.0	48
24	Injectable and thermosensitive TGF- β 1-loaded PCEC hydrogel system for in vivo cartilage repair. <i>Scientific Reports</i> , 2017, 7, 10553.	3.3	47
25	PCL-PEG-PCL film promotes cartilage regeneration in vivo. <i>Cell Proliferation</i> , 2016, 49, 729-739.	5.3	44
26	Targeted and effective glioblastoma therapy via aptamer-modified tetrahedral framework nucleic acid-paclitaxel nanoconjugates that can pass the blood brain barrier. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2019, 21, 102061.	3.3	44
27	Curved microstructures promote osteogenesis of mesenchymal stem cells via the RhoA/ROCK pathway. <i>Cell Proliferation</i> , 2017, 50, .	5.3	40
28	Tetrahedral Framework Nucleic Acid Inhibits Chondrocyte Apoptosis and Oxidative Stress through Activation of Autophagy. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 56782-56791.	8.0	38
29	Tetrahedral DNA Nanomaterial Regulates the Biological Behaviors of Adipose-Derived Stem Cells via DNA Methylation on Dlg3. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 32017-32025.	8.0	37
30	Effect of substrate stiffness on proliferation and differentiation of periodontal ligament stem cells. <i>Cell Proliferation</i> , 2018, 51, e12478.	5.3	37
31	Effect of tetrahedral DNA nanostructures on proliferation and osteogenic differentiation of human periodontal ligament stem cells. <i>Cell Proliferation</i> , 2019, 52, e12566.	5.3	37
32	PEGylated Protamine-Based Adsorbing Improves the Biological Properties and Stability of Tetrahedral Framework Nucleic Acids. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 27588-27597.	8.0	35
33	Progress in Biomedical Applications of Tetrahedral Framework Nucleic Acid-Based Functional Systems. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 47115-47126.	8.0	33
34	Tetrahedral Framework Nucleic Acids Loading Ampicillin Improve the Drug Susceptibility against Methicillin-Resistant <i>Staphylococcus aureus</i> . <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 36957-36966.	8.0	27
35	MicroRNA-214 modified tetrahedral framework nucleic acids target survivin to induce tumour cell apoptosis. <i>Cell Proliferation</i> , 2020, 53, e12708.	5.3	25
36	Biological Effect of Differently Sized Tetrahedral Framework Nucleic Acids: Endocytosis, Proliferation, Migration, and Biodistribution. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 57067-57074.	8.0	25

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37	Hard tissue stability after guided bone regeneration: a comparison between digital titanium mesh and resorbable membrane. <i>International Journal of Oral Science</i> , 2021, 13, 37.	8.6	17
38	Hypoxia triggers angiogenesis by increasing expression of LOX genes in 3-D culture of ASCs and ECs. <i>Experimental Cell Research</i> , 2017, 352, 157-163.	2.6	16
39	DNA-Origami NanoTrap for Studying the Selective Barriers Formed by Phenylalanine-Glycine-Rich Nucleoporins. <i>Journal of the American Chemical Society</i> , 2021, 143, 12294-12303.	13.7	15
40	Tetrahedral DNA nanostructure improves transport efficiency and antifungal effect of histatin 5 against <i>Candida albicans</i> . <i>Cell Proliferation</i> , 2021, 54, e13020.	5.3	14
41	A potential flower-like coating consisting of calcium-phosphate nanosheets on titanium surface. <i>Chinese Chemical Letters</i> , 2017, 28, 1893-1896.	9.0	13
42	Matrix stiffness regulates arteriovenous differentiation of endothelial progenitor cells during vasculogenesis in nude mice. <i>Cell Proliferation</i> , 2019, 52, e12557.	5.3	13
43	Tetrahedral framework nucleic acids facilitate neurorestoration of facial nerves by activating the NGF/PI3K/AKT pathway. <i>Nanoscale</i> , 2021, 13, 15598-15610.	5.6	13
44	Therapeutic Effects of Self-Assembled Tetrahedral Framework Nucleic Acids on Liver Regeneration in Acute Liver Failure. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 13136-13146.	8.0	12
45	Reconstruction of Mandible: A Fully Digital Workflow From Visualized Iliac Bone Grafting to Implant Restoration. <i>Journal of Oral and Maxillofacial Surgery</i> , 2017, 75, 1403.e1-1403.e10.	1.2	9
46	DNA Nanorobot Delivers Antisense Oligonucleotides Silencing c-Met Gene Expression for Cancer Therapy. <i>Journal of Biomedical Nanotechnology</i> , 2019, 15, 1948-1959.	1.1	8
47	Fabrication of Electrospun 3D Nanofibrous Poly(3-Hydroxybutyrate-Co-4-Hydroxybutyrate)/Graphene Scaffolds for Potential Bone Tissue Engineering: Effects of Graphene on Scaffold Properties and Cellular Behaviors. <i>Journal of Biomedical Nanotechnology</i> , 2017, 13, 822-834.	1.1	6
48	Peroxisome Proliferator-Activated Receptor (PPAR) in Regenerative Medicine: Molecular Mechanism for PPAR in Stem Cells' Adipocyte Differentiation. <i>Current Stem Cell Research and Therapy</i> , 2016, 11, 290-298.	1.3	6
49	Positive Neuroplastic Effect of DNA Framework Nucleic Acids on Neuropsychiatric Diseases. , 2022, 4, 665-674.		6
50	Characterization, Specific Demand and Application of Nanomaterials in Bone Regeneration. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 9381-9392.	0.9	5
51	Application of Stem Cells and the Factors Influence Their Differentiation in Cartilage Tissue Engineering. <i>Pancreatic Islet Biology</i> , 2017, , 1-20.	0.3	1
52	Bioswitchable Delivery of microRNA by Framework Nucleic Acids: Application to Bone Regeneration (Small 47/2021). <i>Small</i> , 2021, 17, 2170248.	10.0	0