

Oommen P Oommen

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,513
citations

257101

24
h-index

315357

38
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45
all docs

45
docs citations

45
times ranked

2625
citing authors

#	ARTICLE	IF	CITATIONS
1	Tissue adhesive hyaluronic acid hydrogels for sutureless stem cell delivery and regeneration of corneal epithelium and stroma. <i>Biomaterials</i> , 2019, 225, 119516.	5.7	127
2	Smart Design of Stable Extracellular Matrix Mimetic Hydrogel: Synthesis, Characterization, and In Vitro and In Vivo Evaluation for Tissue Engineering. <i>Advanced Functional Materials</i> , 2013, 23, 1273-1280.	7.8	110
3	Bi-directional cell-pericellular matrix interactions direct stem cell fate. <i>Nature Communications</i> , 2018, 9, 4049.	5.8	90
4	Carbon nanotube doped pericardial matrix derived electroconductive biohybrid hydrogel for cardiac tissue engineering. <i>Biomaterials Science</i> , 2019, 7, 3906-3917.	2.6	83
5	Microencapsulation of cells, including islets, within stable ultra-thin membranes of maleimide-conjugated PEG-lipid with multifunctional crosslinkers. <i>Biomaterials</i> , 2013, 34, 2683-2693.	5.7	74
6	Synthetic design of growth factor sequestering extracellular matrix mimetic hydrogel for promoting in vivo bone formation. <i>Biomaterials</i> , 2018, 161, 190-202.	5.7	74
7	Tailored Doxorubicin-Hyaluronan Conjugate as a Potent Anticancer Glyco-drug: An Alternative to Prodrug Approach. <i>Macromolecular Bioscience</i> , 2014, 14, 327-333.	2.1	69
8	Multifunctional Hyaluronic Acid and Chondroitin Sulfate Nanoparticles: Impact of Glycosaminoglycan Presentation on Receptor Mediated Cellular Uptake and Immune Activation. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 20614-20624.	4.0	68
9	Modulating Thiol pKa Promotes Disulfide Formation at Physiological pH: An Elegant Strategy To Design Disulfide Cross-Linked Hyaluronic Acid Hydrogels. <i>Biomacromolecules</i> , 2019, 20, 1412-1420.	2.6	65
10	ILC1 drive intestinal epithelial and matrix remodelling. <i>Nature Materials</i> , 2021, 20, 250-259.	13.3	64
11	Mild and Efficient Strategy for Site-Selective Aldehyde Modification of Glycosaminoglycans: Tailoring Hydrogels with Tunable Release of Growth Factor. <i>Biomacromolecules</i> , 2013, 14, 2427-2432.	2.6	55
12	Critical assessment of rhBMP-2 mediated bone induction: An in vitro and in vivo evaluation. <i>Journal of Controlled Release</i> , 2012, 162, 646-653.	4.8	47
13	Chondroitin Sulfate-Coated DNA-Nanoplexes Enhance Transfection Efficiency by Controlling Plasmid Release from Endosomes: A New Insight into Modulating Nonviral Gene Transfection. <i>Advanced Functional Materials</i> , 2015, 25, 3907-3915.	7.8	43
14	Discrepancies on the Role of Oxygen Gradient and Culture Condition on Mesenchymal Stem Cell Fate. <i>Advanced Healthcare Materials</i> , 2021, 10, e2002058.	3.9	42
15	Synthesis and anticancer properties of fucoidan-mimetic glycopolymer coated gold nanoparticles. <i>Chemical Communications</i> , 2015, 51, 8532-8535.	2.2	41
16	Chondroitin sulfate coated gold nanoparticles: a new strategy to resolve multidrug resistance and thromboinflammation. <i>Chemical Communications</i> , 2016, 52, 966-969.	2.2	40
17	First Aldol Cross-Linked Hyaluronic Acid Hydrogel: Fast and Hydrolytically Stable Hydrogel with Tissue Adhesive Properties. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 38232-38239.	4.0	34
18	Thiazolidine chemistry revisited: a fast, efficient and stable click-type reaction at physiological pH. <i>Chemical Communications</i> , 2018, 54, 12507-12510.	2.2	33

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19	An Unexpected Role of Hyaluronic Acid in Trafficking siRNA Across the Cellular Barrier: The First Biomimetic, Anionic, Nonviral Transfection Method. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 2815-2819.	7.2	33
20	Injectable and thermoresponsive pericardial matrix derived conductive scaffold for cardiac tissue engineering. <i>RSC Advances</i> , 2017, 7, 31980-31988.	1.7	31
21	Chondroitin sulfate derived theranostic nanoparticles for targeted drug delivery. <i>Biomaterials Science</i> , 2016, 4, 1310-1313.	2.6	30
22	Synthesis and energetic properties of high-nitrogen substituted bishomocubanes. <i>Journal of Materials Chemistry A</i> , 2015, 3, 22118-22128.	5.2	29
23	Harnessing hyaluronic acid-based nanoparticles for combination therapy: A novel approach for suppressing systemic inflammation and to promote antitumor macrophage polarization. <i>Carbohydrate Polymers</i> , 2021, 254, 117291.	5.1	25
24	Insights into the Mechanism and Catalysis of Oxime Coupling Chemistry at Physiological pH. <i>Chemistry - A European Journal</i> , 2015, 21, 5980-5985.	1.7	21
25	Influence of ions to modulate hydrazone and oxime reaction kinetics to obtain dynamically cross-linked hyaluronic acid hydrogels. <i>Polymer Chemistry</i> , 2019, 10, 4322-4327.	1.9	20
26	Saline Accelerates Oxime Reaction with Aldehyde and Keto Substrates at Physiological pH. <i>Scientific Reports</i> , 2018, 8, 2193.	1.6	17
27	Interpenetrating gallol functionalized tissue adhesive hyaluronic acid hydrogel polarizes macrophages to an immunosuppressive phenotype. <i>Acta Biomaterialia</i> , 2022, 142, 36-48.	4.1	16
28	Bidirectional cell-matrix interaction dictates neuronal network formation in a brain-mimetic 3D scaffold. <i>Acta Biomaterialia</i> , 2022, 140, 314-323.	4.1	13
29	An unexpected role of an extra phenolic hydroxyl on the chemical reactivity and bioactivity of catechol or gallol modified hyaluronic acid hydrogels. <i>Polymer Chemistry</i> , 2021, 12, 2987-2991.	1.9	12
30	2'-N-Guanidino,4'-C-ethylene bridged thymidine (GENA-T) modified oligonucleotide exhibits triplex formation with excellent enzymatic stability. <i>RSC Advances</i> , 2015, 5, 12257-12260.	1.7	10
31	Gold nanoparticles approach to detect chondroitin sulphate and hyaluronic acid urothelial coating. <i>Scientific Reports</i> , 2017, 7, 10355.	1.6	10
32	Hyaluronan derived nanoparticle for simvastatin delivery: evaluation of simvastatin induced myotoxicity in tissue engineered skeletal muscle. <i>Biomaterials Science</i> , 2020, 8, 302-312.	2.6	9
33	Pluronic Micelle-Mediated Tissue Factor Silencing Enhances Hemocompatibility, Stemness, Differentiation Potential, and Paracrine Signaling of Mesenchymal Stem Cells. <i>Biomacromolecules</i> , 2021, 22, 1980-1989.	2.6	9
34	Redox responsive Pluronic micelle mediated delivery of functional siRNA: a modular nano-assembly for targeted delivery. <i>Biomaterials Science</i> , 2021, 9, 3939-3944.	2.6	7
35	Hyaluronic Acid-Functionalized Nanomicelles Enhance SAHA Efficacy in 3D Endometrial Cancer Models. <i>Cancers</i> , 2021, 13, 4032.	1.7	7
36	Heparin-Derived Theranostic Nanoprobes Overcome the Blood-Brain Barrier and Target Glioma in Murine Model. <i>Advanced Therapeutics</i> , 2022, 5, .	1.6	7

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37	Synthetic Design of Asymmetric miRNA with an Engineered 3' Overhang to Improve Strand Selection. <i>Molecular Therapy - Nucleic Acids</i> , 2019, 16, 597-604.	2.3	6
38	<i>Streptococcus pneumoniae</i> pneumolysin and neuraminidase A convert high-density lipoproteins into pro-atherogenic particles. <i>IScience</i> , 2021, 24, 102535.	1.9	5
39	An Unexpected Role of Hyaluronic Acid in Trafficking siRNA Across the Cellular Barrier: The First Biomimetic, Anionic, Non-viral Transfection Method. <i>Angewandte Chemie</i> , 2019, 131, 2841-2845.	1.6	0
40	Interpenetrating Gallol Functionalized Tissue Adhesive Hyaluronic Acid Hydrogel Polarizes Macrophages to an Immunosuppressive Phenotype. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0