

Marc Lavertu

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.

24
papers

1,562
citations

15
h-index

26
g-index

26
ext. papers

1,713
ext. citations

7
avg, IF

4.35
L-index

#	Paper	IF	Citations
24	A validated ¹ H NMR method for the determination of the degree of deacetylation of chitosan. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2003 , 32, 1149-58	3.5	451
23	High efficiency gene transfer using chitosan/DNA nanoparticles with specific combinations of molecular weight and degree of deacetylation. <i>Biomaterials</i> , 2006 , 27, 4815-24	15.6	374
22	Chitosans for delivery of nucleic acids. <i>Advanced Drug Delivery Reviews</i> , 2013 , 65, 1234-70	18.5	150
21	Ionization and solubility of chitosan solutions related to thermosensitive chitosan/glycerol-phosphate systems. <i>Biomacromolecules</i> , 2007 , 8, 3224-34	6.9	105
20	Heat-induced transfer of protons from chitosan to glycerol phosphate produces chitosan precipitation and gelation. <i>Biomacromolecules</i> , 2008 , 9, 640-50	6.9	96
19	Excess polycation mediates efficient chitosan-based gene transfer by promoting lysosomal release of the polyplexes. <i>Biomaterials</i> , 2011 , 32, 4639-46	15.6	72
18	siRNA Delivery with Chitosan: Influence of Chitosan Molecular Weight, Degree of Deacetylation, and Amine to Phosphate Ratio on in Vitro Silencing Efficiency, Hemocompatibility, Biodistribution, and in Vivo Efficacy. <i>Biomacromolecules</i> , 2018 , 19, 112-131	6.9	61
17	Precise derivatization of structurally distinct chitosans with rhodamine B isothiocyanate. <i>Carbohydrate Polymers</i> , 2008 , 72, 616-624	10.3	60
16	Kinetics and efficiency of chitosan reacylation. <i>Carbohydrate Polymers</i> , 2012 , 87, 1192-1198	10.3	34
15	Lyophilisation and concentration of chitosan/siRNA polyplexes: Influence of buffer composition, oligonucleotide sequence, and hyaluronic acid coating. <i>Journal of Colloid and Interface Science</i> , 2018 , 512, 335-345	9.3	26
14	Stability and binding affinity of DNA/chitosan complexes by polyanion competition. <i>Carbohydrate Polymers</i> , 2017 , 176, 167-176	10.3	21
13	Combined analysis of polycation/ODN polyplexes by analytical ultracentrifugation and dynamic light scattering reveals their size, refractive index increment, stoichiometry, porosity, and molecular weight. <i>Biomacromolecules</i> , 2014 , 15, 940-7	6.9	20
12	Preparation of Concentrated Chitosan/DNA Nanoparticle Formulations by Lyophilization for Gene Delivery at Clinically Relevant Dosages. <i>Journal of Pharmaceutical Sciences</i> , 2016 , 105, 88-96	3.9	19
11	Injectable chitosan-platelet-rich plasma implants to promote tissue regeneration: in vitro properties, in vivo residence, degradation, cell recruitment and vascularization. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018 , 12, 217-228	4.4	17
10	Efficiency of Chitosan/Hyaluronan-Based mRNA Delivery Systems In Vitro: Influence of Composition and Structure. <i>Journal of Pharmaceutical Sciences</i> , 2020 , 109, 1581-1593	3.9	16
9	Automated in-line mixing system for large scale production of chitosan-based polyplexes. <i>Journal of Colloid and Interface Science</i> , 2017 , 500, 253-263	9.3	11
8	Regioselective thioacetylation of chitosan end-groups for nanoparticle gene delivery systems. <i>Chemical Science</i> , 2015 , 6, 4650-4664	9.4	11

7	Vaccine Technologies and Platforms for Infectious Diseases: Current Progress, Challenges, and Opportunities.. <i>Vaccines</i> , 2021 , 9,	5.3	8
6	Regioselective chitosan end-group activation: the triskelion approach. <i>RSC Advances</i> , 2017 , 7, 18628-18638	3.7	3
5	Poly(2-Propylacrylic Acid) Increases In Vitro Bioactivity of Chitosan/mRNA Nanoparticles. <i>Journal of Pharmaceutical Sciences</i> , 2021 , 110, 3439-3449	3.9	3
4	Multiple platelet-rich plasma preparations can solubilize freeze-dried chitosan formulations to form injectable implants for orthopedic indications. <i>Bio-Medical Materials and Engineering</i> , 2019 , 30, 349-364	1.364	2
3	Chitosan-Platelet-Rich Plasma Implants Improve Rotator Cuff Repair in a Large Animal Model: Pivotal Study. <i>Pharmaceutics</i> , 2021 , 13,	6.4	1
2	Robust Segmentation-Free Algorithm for Homogeneity Quantification in Images. <i>IEEE Transactions on Image Processing</i> , 2021 , 30, 5533-5544	8.7	1
1	Chitosan-platelet-rich plasma implants improve rotator cuff repair in a large animal model: Pilot study.. <i>Journal of Biomaterials Applications</i> , 2022 , 8853282221085058	2.9	