

# Marc Lavertu

## List of Publications by Year in descending order

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Version: 2024-02-01

26  
papers

1,881  
citations

516561

16  
h-index

610775

24  
g-index

26  
all docs

26  
docs citations

26  
times ranked

2628  
citing authors

#	ARTICLE	IF	CITATIONS
1	A validated <sup>1</sup> H NMR method for the determination of the degree of deacetylation of chitosan. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2003, 32, 1149-1158.	1.4	536
2	High efficiency gene transfer using chitosan/DNA nanoparticles with specific combinations of molecular weight and degree of deacetylation. <i>Biomaterials</i> , 2006, 27, 4815-4824.	5.7	407
3	Chitosans for delivery of nucleic acids. <i>Advanced Drug Delivery Reviews</i> , 2013, 65, 1234-1270.	6.6	185
4	Ionization and Solubility of Chitosan Solutions Related to Thermosensitive Chitosan/Glycerol-Phosphate Systems. <i>Biomacromolecules</i> , 2007, 8, 3224-3234.	2.6	123
5	Heat-Induced Transfer of Protons from Chitosan to Glycerol Phosphate Produces Chitosan Precipitation and Gelation. <i>Biomacromolecules</i> , 2008, 9, 640-650.	2.6	108
6	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.	2.6	91
7	Excess polycation mediates efficient chitosan-based gene transfer by promoting lysosomal release of the polyplexes. <i>Biomaterials</i> , 2011, 32, 4639-4646.	5.7	76
8	Precise derivatization of structurally distinct chitosans with rhodamine B isothiocyanate. <i>Carbohydrate Polymers</i> , 2008, 72, 616-624.	5.1	66
9	Vaccine Technologies and Platforms for Infectious Diseases: Current Progress, Challenges, and Opportunities. <i>Vaccines</i> , 2021, 9, 1490.	2.1	48
10	Kinetics and efficiency of chitosan reacetylation. <i>Carbohydrate Polymers</i> , 2012, 87, 1192-1198.	5.1	40
11	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.	5.0	34
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.	1.6	27
13	Stability and binding affinity of DNA/chitosan complexes by polyanion competition. <i>Carbohydrate Polymers</i> , 2017, 176, 167-176.	5.1	27
14	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.	1.6	25
15	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, 940-947.	2.6	21
16	Injectable chitosan-platelet-rich plasma implants to promote tissue regeneration: <i>in vitro</i> properties, <i>in vivo</i> residence, degradation, cell recruitment and vascularization. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, 217-228.	1.3	21
17	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.	5.0	15
18	Regioselective thioacetylation of chitosan end-groups for nanoparticle gene delivery systems. <i>Chemical Science</i> , 2015, 6, 4650-4664.	3.7	13

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19	Poly(2-Propylacrylic Acid) Increases In Vitro Bioactivity of Chitosan/mRNA Nanoparticles. Journal of Pharmaceutical Sciences, 2021, 110, 3439-3449.	1.6	7
20	Regioselective chitosan end-group activation: the triskelion approach. RSC Advances, 2017, 7, 18628-18638.	1.7	4
21	Multiple platelet-rich plasma preparations can solubilize freeze-dried chitosan formulations to form injectable implants for orthopedic indications. Bio-Medical Materials and Engineering, 2019, 30, 349-364.	0.4	2
22	Robust Segmentation-Free Algorithm for Homogeneity Quantification in Images. IEEE Transactions on Image Processing, 2021, 30, 5533-5544.	6.0	2
23	Chitosan-Platelet-Rich Plasma Implants Improve Rotator Cuff Repair in a Large Animal Model: Pivotal Study. Pharmaceutics, 2021, 13, 1955.	2.0	2
24	Chitosan-platelet-rich plasma implants improve rotator cuff repair in a large animal model: Pilot study. Journal of Biomaterials Applications, 2022, 37, 183-194.	1.2	1
25	A novel image analysis algorithm reveals that media conditioned with chitosan and platelet-rich plasma biomaterial dose dependently increases fibroblast migration in a scratch assay. Biomedical Physics and Engineering Express, 2020, 6, 065021.	0.6	0
26	Purification and Surface Modification of Chitosan-based Polyplexes Using Tangential Flow Filtration and Coating by Hyaluronic Acid. Journal of Pharmaceutical Sciences, 2022, 111, 2857-2866.	1.6	0