Marc Lavertu

List of Publications by Year in Descending Order

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	Chitosan-platelet-rich plasma implants improve rotator cuff repair in a large animal model: Pilot study.. *Journal of Biomaterials Applications*, **2022**, 8853282221085058	2.9	
23	Chitosan-Platelet-Rich Plasma Implants Improve Rotator Cuff Repair in a Large Animal Model: Pivotal Study. *Pharmaceutics*, **2021**, 13,	6.4	1
22	Poly(2-Propylacrylic Acid) Increases In Vitro Bioactivity of Chitosan/mRNA Nanoparticles. *Journal of Pharmaceutical Sciences*, **2021**, 110, 3439-3449	3.9	3
21	Robust Segmentation-Free Algorithm for Homogeneity Quantification in Images. *IEEE Transactions on Image Processing*, **2021**, 30, 5533-5544	8.7	1
20	Vaccine Technologies and Platforms for Infectious Diseases: Current Progress, Challenges, and Opportunities.. *Vaccines*, **2021**, 9,	5.3	8
19	Efficiency of Chitosan/Hyaluronan-Based mRNA Delivery Systems In Vitro: Influence of Composition and Structure. *Journal of Pharmaceutical Sciences*, **2020**, 109, 1581-1593	3.9	16
18	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	1	2
17	Injectable chitosan-platelet-rich plasma implants to promote tissue regeneration: in vitro properties, in vivo residence, degradation, cell recruitment and vascularization. *Journal of Tissue Engineering and Regenerative Medicine*, **2018**, 12, 217-228	4.4	17
16	Lyophilisation and concentration of chitosan/siRNA polyplexes: Influence of buffer composition, oligonucleotide sequence, and hyaluronic acid coating. *Journal of Colloid and Interface Science*, **2018**, 512, 335-345	9.3	26
15	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. *Biomacromolecules*, **2018**, 19, 112-131	6.9	61
14	Automated in-line mixing system for large scale production of chitosan-based polyplexes. *Journal of Colloid and Interface Science*, **2017**, 500, 253-263	9.3	11
13	Regioselective chitosan end-group activation: the triskelion approach. *RSC Advances*, **2017**, 7, 18628-18638	3.7	3
12	Stability and binding affinity of DNA/chitosan complexes by polyanion competition. *Carbohydrate Polymers*, **2017**, 176, 167-176	10.3	21
11	Preparation of Concentrated Chitosan/DNA Nanoparticle Formulations by Lyophilization for Gene Delivery at Clinically Relevant Dosages. *Journal of Pharmaceutical Sciences*, **2016**, 105, 88-96	3.9	19
10	Regioselective thioacetylation of chitosan end-groups for nanoparticle gene delivery systems. *Chemical Science*, **2015**, 6, 4650-4664	9.4	11
9	Combined analysis of polycation/ODN polyplexes by analytical ultracentrifugation and dynamic light scattering reveals their size, refractive index increment, stoichiometry, porosity, and molecular weight. *Biomacromolecules*, **2014**, 15, 940-7	6.9	20
8	Chitosans for delivery of nucleic acids. *Advanced Drug Delivery Reviews*, **2013**, 65, 1234-70	18.5	150

7	Kinetics and efficiency of chitosan reacetylation. *Carbohydrate Polymers*, **2012**, 87, 1192-1198	10.3	34
6	Excess polycation mediates efficient chitosan-based gene transfer by promoting lysosomal release of the polyplexes. *Biomaterials*, **2011**, 32, 4639-46	15.6	72
5	Heat-induced transfer of protons from chitosan to glycerol phosphate produces chitosan precipitation and gelation. *Biomacromolecules*, **2008**, 9, 640-50	6.9	96
4	Precise derivatization of structurally distinct chitosans with rhodamine B isothiocyanate. *Carbohydrate Polymers*, **2008**, 72, 616-624	10.3	60
3	Ionization and solubility of chitosan solutions related to thermosensitive chitosan/glycerol-phosphate systems. *Biomacromolecules*, **2007**, 8, 3224-34	6.9	105
2	High efficiency gene transfer using chitosan/DNA nanoparticles with specific combinations of molecular weight and degree of deacetylation. *Biomaterials*, **2006**, 27, 4815-24	15.6	374
1	A validated 1H NMR method for the determination of the degree of deacetylation of chitosan. *Journal of Pharmaceutical and Biomedical Analysis*, **2003**, 32, 1149-58	3.5	451