# Marc Lavertu

List of Publications by Year
in descending order



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|---|---|---|---|
| 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 | 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 |
| 2 | 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 |
| 3 | Poly(2-Propylacrylic Acid) Increases In Vitro Bioactivity of Chitosan/mRNA Nanoparticles. Journal of Pharmaceutical Sciences, 2021, 110, 3439-3449. | 1.6 | 7 |
| 4 | Robust Segmentation-Free Algorithm for Homogeneity Quantification in Images. IEEE Transactions on Image Processing, 2021, 30, 5533-5544. | 6.0 | 2 |
| 5 | Chitosanâ€“Platelet-Rich Plasma Implants Improve Rotator Cuff Repair in a Large Animal Model: Pivotal Study. Pharmaceutics, 2021, 13, 1955. | 2.0 | 2 |
| 6 | Vaccine Technologies and Platforms for Infectious Diseases: Current Progress, Challenges, and Opportunities. Vaccines, 2021, 9, 1490. | 2.1 | 48 |
| 7 | Efficiency of Chitosan/Hyaluronan-Based mRNA Delivery Systems InÂVitro: Influence of Composition and Structure. Journal of Pharmaceutical Sciences, 2020, 109, 1581-1593. | 1.6 | 25 |
| 8 | 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 |
| 9 | 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 |
| 10 | Injectable chitosan-platelet-rich plasma implants to promote tissue regeneration:in vitroproperties,in vivoresidence, degradation, cell recruitment and vascularization. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, 217-228. | 1.3 | 21 |
| 11 | 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. | 5.0 | 34 |
| 12 | 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. | 2.6 | 91 |
| 13 | Automated in-line mixing system for large scale production of chitosan-based polyplexes. Journal of Colloid and Interface Science, 2017, 500, 253-263. | 5.0 | 15 |
| 14 | Regioselective chitosan end-group activation: the triskelion approach. RSC Advances, 2017, 7, 18628-18638. | 1.7 | 4 |
| 15 | Stability and binding affinity of DNA/chitosan complexes by polyanion competition. Carbohydrate Polymers, 2017, 176, 167-176. | 5.1 | 27 |
| 16 | Preparation of Concentrated Chitosan/DNA Nanoparticle Formulations by Lyophilization for Gene Delivery at Clinically Relevant Dosages. Journal of Pharmaceutical Sciences, 2016, 105, 88-96. | 1.6 | 27 |
| 17 | Regioselective thioacetylation of chitosan end-groups for nanoparticle gene delivery systems. Chemical Science, 2015, 6, 4650-4664. | 3.7 | 13 |
| 18 | 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, 940-947. | 2.6 | 21 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Chitosans for delivery of nucleic acids. Advanced Drug Delivery Reviews, 2013, 65, 1234-1270. | 6.6 | 185 |
| 20 | Kinetics and efficiency of chitosan reacetylation. Carbohydrate Polymers, 2012, 87, 1192-1198. | 5.1 | 40 |
| 21 | Excess polycation mediates efficient chitosan-based gene transfer by promoting lysosomal release of the polyplexes. Biomaterials, 2011, 32, 4639-4646. | 5.7 | 76 |
| 22 | Precise derivatization of structurally distinct chitosans with rhodamine B isothiocyanate. Carbohydrate Polymers, 2008, 72, 616-624. | 5.1 | 66 |
| 23 | Heat-Induced Transfer of Protons from Chitosan to Glycerol Phosphate Produces Chitosan Precipitation and Gelation. Biomacromolecules, 2008, 9, 640-650. | 2.6 | 108 |
| 24 | Ionization and Solubility of Chitosan Solutions Related to Thermosensitive Chitosan/Glycerol-Phosphate Systems. Biomacromolecules, 2007, 8, 3224-3234. | 2.6 | 123 |
| 25 | High efficiency gene transfer using chitosan/DNA nanoparticles with specific combinations of molecular weight and degree of deacetylation. Biomaterials, 2006, 27, 4815-4824. | 5.7 | 407 |
| 26 | A validated 1H NMR method for the determination of the degree of deacetylation of chitosan. Journal of Pharmaceutical and Biomedical Analysis, 2003, 32, 1149-1158. | 1.4 | 536 |