

Peter R Wich

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

1,482
citations

304743

22
h-index

330143

37
g-index

56
all docs

56
docs citations

56
times ranked

2133
citing authors

#	ARTICLE	IF	CITATIONS
1	Acid-Degradable Cationic Dextran Particles for the Delivery of siRNA Therapeutics. <i>Bioconjugate Chemistry</i> , 2011, 22, 1056-1065.	3.6	142
2	Polyphosphonium Polymers for siRNA Delivery: An Efficient and Nontoxic Alternative to Polyammonium Carriers. <i>Journal of the American Chemical Society</i> , 2012, 134, 1902-1905.	13.7	122
3	Conjugation Chemistry through Acetals toward a Dextran-Based Delivery System for Controlled Release of siRNA. <i>Journal of the American Chemical Society</i> , 2012, 134, 15840-15848.	13.7	82
4	Quantum Chemical-Based Protocol for the Rational Design of Covalent Inhibitors. <i>Journal of the American Chemical Society</i> , 2016, 138, 8332-8335.	13.7	69
5	Sequence-Dependent Stereoselectivity in the Binding of Tetrapeptides in Water by a Flexible Artificial Receptor. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 4277-4281.	13.8	66
6	Cellular signalling pathways mediating the pathogenesis of chronic inflammatory respiratory diseases: an update. <i>Inflammopharmacology</i> , 2020, 28, 795-817.	3.9	65
7	Dextran-based therapeutic nanoparticles for hepatic drug delivery. <i>Nanomedicine</i> , 2016, 11, 2663-2677.	3.3	50
8	Aerosolized Antimicrobial Agents Based on Degradable Dextran Nanoparticles Loaded with Silver Carbene Complexes. <i>Molecular Pharmaceutics</i> , 2012, 9, 3012-3022.	4.6	49
9	Development of Novel Peptide-Based Michael Acceptors Targeting Rhodospirillum rubrum and Falcipain-2 for the Treatment of Neglected Tropical Diseases (NTDs). <i>Journal of Medicinal Chemistry</i> , 2017, 60, 6911-6923.	6.4	46
10	Amphiphilic Polysaccharide Block Copolymers for pH-Responsive Micellar Nanoparticles. <i>Biomacromolecules</i> , 2017, 18, 2839-2848.	5.4	45
11	A Facile and Efficient Multi-Step Synthesis of <i>N</i> -Protected 5-(Guanidinocarbonyl)- <i>L</i> -proline-2-carboxylic Acids. <i>European Journal of Organic Chemistry</i> , 2008, 2008, 324-329.	2.4	43
12	Direct and Label-Free Detection of Solid-Phase-Bound Compounds by Using Surface-Enhanced Raman Scattering Microspectroscopy. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 4786-4789.	13.8	42
13	Surface Modification of Polysaccharide-Based Nanoparticles with PEG and Dextran and the Effects on Immune Cell Binding and Stimulatory Characteristics. <i>Molecular Pharmaceutics</i> , 2017, 14, 4403-4416.	4.6	40
14	Plants derived therapeutic strategies targeting chronic respiratory diseases: Chemical and immunological perspective. <i>Chemico-Biological Interactions</i> , 2020, 325, 109125.	4.0	40
15	Delivering all in one: Antigen-nanocapsule loaded with dual adjuvant yields superadditive effects by DC-directed T cell stimulation. <i>Journal of Controlled Release</i> , 2018, 289, 23-34.	9.9	33
16	Nanoparticle Assembly of Surface-Modified Proteins. <i>Journal of the American Chemical Society</i> , 2016, 138, 14820-14823.	13.7	31
17	Detailed algal extracellular carbohydrate-protein characterisation lends insight into algal solid-liquid separation process outcomes. <i>Water Research</i> , 2020, 178, 115833.	11.3	27
18	Reversible and Noncompetitive Inhibition of α -Trypsin by Protein Surface Binding of Tetravalent Peptide Ligands Identified from a Combinatorial Split-Mix Library. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 4113-4116.	13.8	26

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19	Xylochemical Synthesis of Cytotoxic 2-Aminophenoxazinone-Type Natural Products Through Oxidative Cross Coupling. ACS Sustainable Chemistry and Engineering, 2019, 7, 4414-4419.	6.7	24
20	Receptor-mediated Uptake of Folic Acid-functionalized Dextran Nanoparticles for Applications in Photodynamic Therapy. Polymers, 2019, 11, 896.	4.5	24
21	Asymmetric Disulfanylbenzamides as Irreversible and Selective Inhibitors of <i>Staphylococcus aureus</i> Sortase A. ChemMedChem, 2020, 15, 839-850.	3.2	24
22	Attenuation of Cigarette-Smoke-Induced Oxidative Stress, Senescence, and Inflammation by Berberine-Loaded Liquid Crystalline Nanoparticles: In Vitro Study in 16HBE and RAW264.7 Cells. Antioxidants, 2022, 11, 873.	5.1	24
23	Combinatorial receptor finding—large and random vs. small and focused libraries. New Journal of Chemistry, 2006, 30, 1377-1385.	2.8	22
24	A new approach to inhibit human β -tryptase by protein surface binding of four-armed peptide ligands with two different sets of arms. Organic and Biomolecular Chemistry, 2013, 11, 1631.	2.8	21
25	Recent trends of NF- κ B decoy oligodeoxynucleotide-based nanotherapeutics in lung diseases. Journal of Controlled Release, 2021, 337, 629-644.	9.9	21
26	UV resonance Raman spectroscopic monitoring of supramolecular complex formation: peptide recognition in aqueous solution. Physical Chemistry Chemical Physics, 2007, 9, 4598.	2.8	20
27	The Development of Artificial Receptors for Small Peptides Using Combinatorial Approaches. , 2007, , 3-30.		20
28	Protein-Based Nanoparticles for the Delivery of Enzymes with Antibacterial Activity. Macromolecular Rapid Communications, 2018, 39, e1800186.	3.9	19
29	Degradable Dextran Particles for Gene Delivery Applications. Australian Journal of Chemistry, 2012, 65, 15.	0.9	18
30	Double stimuli-responsive polysaccharide block copolymers as <i>green</i> macro surfactants for near-infrared photodynamic therapy. Soft Matter, 2019, 15, 1423-1434.	2.7	18
31	Atropodiastereoselective Cleavage of Configurationally Unstable Biaryl Lactones with Amino Acid Esters. European Journal of Organic Chemistry, 2006, 2006, 4349-4361.	2.4	17
32	Site-specific pKa determination of the carboxylate-binding subunit in artificial peptide receptors. Chemical Communications, 2010, 46, 2133.	4.1	17
33	miRNA nanotherapeutics: potential and challenges in respiratory disorders. Future Medicinal Chemistry, 2020, 12, 987-990.	2.3	17
34	Characterization of guanidiniocarbonyl pyrroles in water by pH-dependent UV Raman spectroscopy and component analysis. Physical Chemistry Chemical Physics, 2008, 10, 6770.	2.8	16
35	Targeting respiratory diseases using miRNA inhibitor based nanotherapeutics: Current status and future perspectives. Nanomedicine: Nanotechnology, Biology, and Medicine, 2021, 31, 102303.	3.3	16
36	Metal-organic frameworks as protective matrices for peptide therapeutics. Journal of Colloid and Interface Science, 2020, 576, 356-363.	9.4	15

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37	pH-Responsive protein nanoparticles via conjugation of degradable PEG to the surface of cytochrome c. Polymer Chemistry, 2020, 11, 551-559.	3.9	14
38	Methods of protein surface PEGylation under structure preservation for the emulsion-based formation of stable nanoparticles. MedChemComm, 2016, 7, 1738-1744.	3.4	12
39	Nanoparticulate strategies for the delivery of miRNA mimics and inhibitors in anticancer therapy and its potential utility in oral submucous fibrosis. Nanomedicine, 2022, 17, 181-195.	3.3	10
40	Treatment of chronic airway diseases using nutraceuticals: Mechanistic insight. Critical Reviews in Food Science and Nutrition, 2022, 62, 7576-7590.	10.3	9
41	Co-encapsulation of L-asparaginase and etoposide in dextran nanoparticles for synergistic effect in chronic myeloid leukemia cells. International Journal of Pharmaceutics, 2022, 622, 121796.	5.2	8
42	Versatility of acetalated dextran in nanocarriers targeting respiratory diseases. Materials Letters, 2022, 323, 132600.	2.6	7
43	Can dextran-based nanoparticles mitigate inflammatory lung diseases?. Future Medicinal Chemistry, 2021, 13, 2027-2031.	2.3	4
44	FCI Literaturpreis: T. Schirmeister, C. Schmuck, P. R. Wich / FNP Preis: D. T. Gryko / Heinz Award: J. M. DeSimone. Angewandte Chemie, 2018, 130, 1761-1761.	2.0	2
45	FCI Literature Prize: T. Schirmeister, C. Schmuck, P. R. Wich / Foundation for Polish Science Award: D. T. Gryko / Heinz Award: J. M. DeSimone. Angewandte Chemie - International Edition, 2018, 57, 1745-1745.	13.8	2
46	World Wide Web Chemie und Recht. Nachrichten Aus Der Chemie, 2005, 53, 1142-1142.	0.0	0
47	World Wide Web Chemie – aber sicher. Nachrichten Aus Der Chemie, 2005, 53, 431-431.	0.0	0
48	World Wide Web Chromatographie. Nachrichten Aus Der Chemie, 2005, 53, 536-536.	0.0	0
49	Quantitative UV RR Spectroscopy of Artificial Peptide Receptors. , 2010, , .		0
50	Ich bin dabei: Peter Wich. Nachrichten Aus Der Chemie, 2017, 65, 615-615.	0.0	0