

Shawn D Wettig

List of Publications by Year in descending order

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74
papers

2,906
citations

136950

32
h-index

175258

52
g-index

75
all docs

75
docs citations

75
times ranked

3243
citing authors

#	ARTICLE	IF	CITATIONS
1	Microemulsion utility in pharmaceuticals: Implications for multi-drug delivery. <i>International Journal of Pharmaceutics</i> , 2017, 526, 425-442.	5.2	284
2	Thermodynamic Studies of Aqueous Gemini Surfactant Systems. <i>Journal of Colloid and Interface Science</i> , 2001, 235, 310-316.	9.4	175
3	Gemini Surfactants: A New Family of Building Blocks for Non-Viral Gene Delivery Systems. <i>Current Gene Therapy</i> , 2008, 8, 9-23.	2.0	139
4	Thermodynamic and Aggregation Properties of Gemini Surfactants with Hydroxyl Substituted Spacers in Aqueous Solution. <i>Langmuir</i> , 2002, 18, 5354-5359.	3.5	108
5	Effect of Chemical Permeation Enhancers on Stratum Corneum Barrier Lipid Organizational Structure and Interferon Alpha Permeability. <i>Molecular Pharmaceutics</i> , 2013, 10, 2248-2260.	4.6	100
6	Topical non-invasive gene delivery using gemini nanoparticles in interferon- β -deficient mice. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2007, 65, 414-422.	4.3	87
7	Advancing nonviral gene delivery: lipid- and surfactant-based nanoparticle design strategies. <i>Nanomedicine</i> , 2010, 5, 1103-1127.	3.3	82
8	Structural and transfection properties of amine-substituted gemini surfactant-based nanoparticles. <i>Journal of Gene Medicine</i> , 2007, 9, 649-658.	2.8	77
9	Enhanced gene expression in epithelial cells transfected with amino acid-substituted gemini nanoparticles. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2010, 75, 311-320.	4.3	77
10	Modified gelatin nanoparticles for gene delivery. <i>International Journal of Pharmaceutics</i> , 2019, 554, 224-234.	5.2	75
11	Investigation of complexes formed by interaction of cationic gemini surfactants with deoxyribonucleic acid. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 1616.	2.8	68
12	Studies of the Interaction of Cationic Gemini Surfactants with Polymers and Triblock Copolymers in Aqueous Solution. <i>Journal of Colloid and Interface Science</i> , 2001, 244, 377-385.	9.4	66
13	Thermodynamic and Aggregation Properties of Gemini Surfactants with Ethoxylated Spacers in Aqueous Solution. <i>Langmuir</i> , 2003, 19, 3666-3670.	3.5	63
14	Interactions between DNA and Gemini surfactant: impact on gene therapy: part I. <i>Nanomedicine</i> , 2016, 11, 289-306.	3.3	61
15	Structural characterization of novel gemini non-viral DNA delivery systems for cutaneous gene therapy. <i>Journal of Experimental Nanoscience</i> , 2006, 1, 165-176.	2.4	57
16	Interactions between 12-EOx-12 Gemini Surfactants and Pluronic ABA Block Copolymers (F108 and P103) Studied by Isothermal Titration Calorimetry. <i>Langmuir</i> , 2004, 20, 579-586.	3.5	56
17	Thermodynamic investigation of M-DNA: a novel metal ion-DNA complex. <i>Journal of Inorganic Biochemistry</i> , 2003, 94, 94-99.	3.5	52
18	Thermodynamic and aggregation properties of aza- and imino-substituted gemini surfactants designed for gene delivery. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 871-877.	2.8	51

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19	The dicarboxylate carrier plays a role in mitochondrial malate transport and in the regulation of glucose-stimulated insulin secretion from rat pancreatic beta cells. <i>Diabetologia</i> , 2011, 54, 135-145.	6.3	50
20	Immunocompatibility of Bacteriophages as Nanomedicines. <i>Journal of Nanotechnology</i> , 2012, 2012, 1-13.	3.4	47
21	M-DNA: A Self-Assembling Molecular Wire for Nanoelectronics and Biosensing.. <i>Analytical Sciences</i> , 2003, 19, 23-26.	1.6	46
22	Designing pH-sensitive gemini nanoparticles for non-viral gene delivery into keratinocytes. <i>Journal of Materials Chemistry</i> , 2012, 22, 6232.	6.7	46
23	Isothermal titration calorimetry and dynamic light scattering studies of interactions between gemini surfactants of different structure and Pluronic block copolymers. <i>Journal of Colloid and Interface Science</i> , 2005, 282, 466-477.	9.4	45
24	Synthesis of curcumin-functionalized gold nanoparticles and cytotoxicity studies in human prostate cancer cell line. <i>Applied Nanoscience (Switzerland)</i> , 2018, 8, 347-357.	3.1	44
25	Synthesis, Characterization, and Use of Asymmetric Pyrenyl-Gemini Surfactants as Emissive Components in DNA-Lipoplex Systems. <i>Langmuir</i> , 2007, 23, 8995-9001.	3.5	40
26	Synergistic behaviour of ZnO nanoparticles and gemini surfactants on the dynamic and equilibrium oil/water interfacial tension. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 7122-7129.	2.8	40
27	Continuous Langmuir-Blodgett Deposition and Transfer by Controlled Edge-to-Edge Assembly of Floating 2D Materials. <i>Langmuir</i> , 2019, 35, 51-59.	3.5	38
28	Topical Delivery of Interferon Alpha by Biphasic Vesicles: Evidence for a Novel Nanopathway across the Stratum Corneum. <i>Molecular Pharmaceutics</i> , 2010, 7, 751-762.	4.6	37
29	Synthesis and aggregation properties of dissymmetric phytanyl-gemini surfactants for use as improved DNA transfection vectors. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 637-642.	2.8	35
30	Biodistribution and Physiologically-Based Pharmacokinetic Modeling of Gold Nanoparticles in Mice with Interspecies Extrapolation. <i>Pharmaceutics</i> , 2019, 11, 179.	4.5	35
31	Aryl Hydrocarbon Receptor Nuclear Translocator/Hypoxia-inducible Factor-1 β Plays a Critical Role in Maintaining Glucose-stimulated Anaplerosis and Insulin Release from Pancreatic β -Cells. <i>Journal of Biological Chemistry</i> , 2011, 286, 1014-1024.	3.4	34
32	An Overview of Nanotechnologies for Drug Delivery to the Brain. <i>Pharmaceutics</i> , 2022, 14, 224.	4.5	34
33	Signal Transduction through Dye-Labeled M-DNA Y-Branched Junctions: Switching Modulated by Chemical Reduction of Anthraquinone. <i>Nano Letters</i> , 2003, 3, 617-622.	9.1	33
34	Characterization of the Behavior of a Pyrene Substituted Gemini Surfactant in Water by Fluorescence. <i>Langmuir</i> , 2011, 27, 3361-3371.	3.5	33
35	Synthesis and solution properties of gemini surfactants containing oleyl chains. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 3172.	2.8	32
36	M-DNA: A novel metal ion complex of DNA studied by fluorescence techniques. <i>Journal of Inorganic Biochemistry</i> , 2005, 99, 2093-2101.	3.5	31

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37	Synthesis and evaluation of alendronate-modified gelatin biopolymer as a novel osteotropic nanocarrier for gene therapy. <i>Nanomedicine</i> , 2016, 11, 2251-2273.	3.3	31
38	Biphasic Vesicles for Topical Delivery of Interferon Alpha in Human Volunteers and Treatment of Patients with Human Papillomavirus Infections. <i>Current Drug Delivery</i> , 2011, 8, 307-319.	1.6	30
39	Transfection and structural properties of phytanyl substituted gemini surfactant-based vectors for gene delivery. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 20510.	2.8	29
40	Investigating the Phospholipid Effect on the Bioaccessibility of Rosmarinic Acid-Phospholipid Complex through a Dynamic Gastrointestinal in Vitro Model. <i>Pharmaceutics</i> , 2019, 11, 156.	4.5	28
41	Mixed aggregate formation in gemini surfactant/1,2-dialkyl-sn-glycero-3-phosphoethanolamine systems. <i>Journal of Colloid and Interface Science</i> , 2012, 377, 237-243.	9.4	26
42	Long Range Molecular Wire Behaviour in a Metal Complex of DNA. <i>Journal of Biomolecular Structure and Dynamics</i> , 2002, 20, 93-98.	3.5	25
43	Addressing the Challenge: Current and Future Directions in Ovarian Cancer Therapy. <i>Current Gene Therapy</i> , 2009, 9, 434-458.	2.0	25
44	Synthesis and characterization of asymmetrical gemini surfactants. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 1953-1962.	2.8	24
45	Dependence of DNA Electronic Structure on Environmental and Structural Variations. <i>Journal of Physical Chemistry B</i> , 2006, 110, 15742-15748.	2.6	21
46	Thermodynamic investigation of the binding of dissymmetric pyrenyl-gemini surfactants to DNA. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 4821.	2.8	21
47	Interactions between DNA and gemini surfactant: impact on gene therapy: part II. <i>Nanomedicine</i> , 2016, 11, 403-420.	3.3	20
48	Effect of spacer length on the interfacial behavior of N,N- ϵ^2 -bis(dimethylalkyl)- β -alkanediammonium dibromide gemini surfactants in the absence and presence of ZnO nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2017, 486, 204-210.	9.4	20
49	Challenges of Dissolution Methods Development for Soft Gelatin Capsules. <i>Pharmaceutics</i> , 2021, 13, 214.	4.5	20
50	Impact of DNA Vector Topology on Non-Viral Gene Therapeutic Safety and Efficacy. <i>Current Gene Therapy</i> , 2014, 14, 309-329.	2.0	19
51	Effect of counterions on the micellization and monolayer behaviour of cationic gemini surfactants. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 10825-10834.	2.8	18
52	Studies of the Aggregation Behavior of Cyclic Gemini Surfactants. <i>Journal of Colloid and Interface Science</i> , 2002, 247, 456-462.	9.4	17
53	Solid versus solution: Examining the electronic structure of metallic DNA with soft x-ray spectroscopy. <i>Physical Review B</i> , 2006, 74, .	3.2	17
54	Synthesis of Two-Dimensional Plasmonic Molybdenum Oxide Nanomaterials by Femtosecond Laser Irradiation. <i>Chemistry of Materials</i> , 2021, 33, 4510-4521.	6.7	15

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55	Interactions between gemini and nonionic pharmaceutical surfactants. Canadian Journal of Chemistry, 2010, 88, 1262-1270.	1.1	13
56	Avocado-derived polyols for use as novel co-surfactants in low energy self-emulsifying microemulsions. Scientific Reports, 2020, 10, 5566.	3.3	13
57	Cationic Gemini Surfactant-Plasmid Deoxyribonucleic Acid Condensates as a Single Amphiphilic Entity. Journal of Physical Chemistry B, 2018, 122, 194-199.	2.6	12
58	<i>m-s-m</i> cationic gemini and zwitterionic surfactants – a thermodynamic analysis of their mixed micelle formation. RSC Advances, 2020, 10, 3221-3232.	3.6	12
59	Electronic structure and charge carriers in metallic DNA investigated by soft x-ray spectroscopy. Physical Review B, 2006, 73, .	3.2	10
60	Temperature effects on the chemical composition of nickel-phosphorus alloy thin films. Thin Solid Films, 2010, 518, 2045-2049.	1.8	10
61	Physical Characterization of Gemini Surfactant-Based Synthetic Vectors for the Delivery of Linear Covalently Closed (LCC) DNA Ministrings. PLoS ONE, 2015, 10, e0142875.	2.5	10
62	Optimization of a One-Step Heat-Inducible In Vivo Mini DNA Vector Production System. PLoS ONE, 2014, 9, e89345.	2.5	9
63	Phase Behavior of Nonionic Surfactant-Medium Chain Triglyceride-Water Microemulsion Systems. Journal of Surfactants and Detergents, 2021, 24, 603-629.	2.1	7
64	Separation and purification of linear covalently closed deoxyribonucleic acid by Q-anion exchange membrane chromatography. Journal of Chromatography A, 2014, 1339, 214-218.	3.7	5
65	ParAB-mediated intermolecular association of plasmid P1 parS Sites. Virology, 2011, 421, 192-201.	2.4	4
66	Non-viral Gene Delivery. Experientia Supplementum (2012), 2018, 110, 3-68.	0.9	4
67	Mixing behaviour of Pluronics with gemini surfactant/plasmid DNA condensates: effect of Pluronic composition. Physical Chemistry Chemical Physics, 2020, 22, 26121-26135.	2.8	4
68	Nanomedicine Based Approaches to Cancer Diagnosis and Therapy. , 0, , .		2
69	Kelvin probe force microscopy to study electrostatic interactions of DNA with lipid-gemini surfactant monolayers for gene delivery. Soft Matter, 2021, 17, 826-833.	2.7	2
70	Thermodynamic Studies of DNA-Cationic Components Interactions Using Titration Calorimetry. Journal of Thermodynamics & Catalysis, 2012, 04, .	0.2	2
71	Calorimetric Investigations of Non-Viral DNA Transfection Systems. , 0, , .		1
72	Fluorescence-based techniques to assess the miscibility and physical stability of a drug-lipid complex. Canadian Journal of Chemistry, 2019, 97, 496-503.	1.1	1

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73	Local Structure of M-DNA at the Nitrogen K-edge: Evidence Towards a Metal Ion Induced Conduction Band in DNA. Journal of Nanoscience and Nanotechnology, 2005, 5, 1557-1560.	0.9	1
74	Chemical Switching and Molecular Logic in Fluorescent-Labeled M-DNA. Lecture Notes in Computer Science, 2004, , 19-31.	1.3	0