

Geoffrey D Bothun

List of Publications by Year in descending order

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papers

2,051
citations

257450

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79
all docs

79
docs citations

79
times ranked

3221
citing authors

#	ARTICLE	IF	CITATIONS
1	Controlled Release from Bilayer-Decorated Magnetoliposomes via Electromagnetic Heating. ACS Nano, 2010, 4, 3215-3221.	14.6	210
2	Nanoparticles Meet Cell Membranes: Probing Nonspecific Interactions using Model Membranes. Environmental Science & Technology, 2014, 48, 873-880.	10.0	198
3	Hydrophobic silver nanoparticles trapped in lipid bilayers: Size distribution, bilayer phase behavior, and optical properties. Journal of Nanobiotechnology, 2008, 6, 13.	9.1	131
4	Stimuli-responsive liposome-nanoparticle assemblies. Expert Opinion on Drug Delivery, 2011, 8, 1025-1040.	5.0	107
5	Impact of impurities in biodiesel-derived crude glycerol on the fermentation by Clostridium pasteurianum ATCC 6013. Applied Microbiology and Biotechnology, 2012, 93, 1325-1335.	3.6	97
6	Multicomponent folate-targeted magnetoliposomes: design, characterization, and cellular uptake. Nanomedicine: Nanotechnology, Biology, and Medicine, 2011, 7, 797-805.	3.3	67
7	Structural and Thermal Analysis of Lipid Vesicles Encapsulating Hydrophobic Gold Nanoparticles. ACS Nano, 2012, 6, 4678-4685.	14.6	61
8	Liposome Fluidization and Melting Point Depression by Pressurized CO ₂ Determined by Fluorescence Anisotropy. Langmuir, 2005, 21, 530-536.	3.5	57
9	Compressed solvents for the extraction of fermentation products within a hollow fiber membrane contactor. Journal of Supercritical Fluids, 2003, 25, 119-134.	3.2	55
10	Hepatoma Cell Uptake of Cationic Multifluorescent Quantum Dot Liposomes. Journal of Physical Chemistry B, 2009, 113, 7725-7728.	2.6	50
11	Effect of lamellarity and size on calorimetric phase transitions in single component phosphatidylcholine vesicles. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 532-543.	2.6	49
12	Biofilm Formation by Hydrocarbon-Degrading Marine Bacteria and Its Effects on Oil Dispersion. ACS Sustainable Chemistry and Engineering, 2019, 7, 14490-14499.	6.7	49
13	Low-dose chemotherapy of hepatocellular carcinoma through triggered-release from bilayer-decorated magnetoliposomes. Colloids and Surfaces B: Biointerfaces, 2014, 116, 452-458.	5.0	41
14	Hydrophobicity drives the cellular uptake of short cationic peptide ligands. European Biophysics Journal, 2011, 40, 727-736.	2.2	38
15	Lipid-Assisted Formation and Dispersion of Aqueous and Bilayer-Embedded Nano-C ₆₀ . Langmuir, 2009, 25, 4875-4879.	3.5	37
16	Mass transfer in hollow fiber membrane contactor extraction using compressed solvents. Journal of Membrane Science, 2003, 227, 183-196.	8.2	36
17	Particle Formation in Precipitation Polymerization: A Continuous Precipitation Polymerization of Acrylic Acid in Supercritical Carbon Dioxide. Macromolecules, 2006, 39, 6489-6494.	4.8	34
18	Efficient dispersion of crude oil by blends of food-grade surfactants: Toward greener oil-spill treatments. Marine Pollution Bulletin, 2015, 101, 92-97.	5.0	34

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19	Centrifugation-based assay for examining nanoparticle–lipid membrane binding and disruption. <i>Analyst</i> , 2014, 139, 973.	3.5	30
20	Critical new insights into the binding of poly- and perfluoroalkyl substances (PFAS) to albumin protein. <i>Chemosphere</i> , 2022, 287, 131979.	8.2	30
21	Partitioning of perfluorooctanoate into phosphatidylcholine bilayers is chain length-independent. <i>Chemistry and Physics of Lipids</i> , 2010, 163, 300-308.	3.2	27
22	Hydration repulsion effects on the formation of supported lipid bilayers. <i>Soft Matter</i> , 2011, 7, 1936.	2.7	27
23	Attachment of <i>Alcanivorax borkumensis</i> to Hexadecane-In-Artificial Sea Water Emulsion Droplets. <i>Langmuir</i> , 2018, 34, 5352-5357.	3.5	27
24	Bilayer heating in magnetite nanoparticle–liposome dispersions via fluorescence anisotropy. <i>Journal of Colloid and Interface Science</i> , 2011, 357, 70-74.	9.4	26
25	A solvent-free lecithin-Tween 80 system for oil dispersion. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 533, 218-223.	4.7	26
26	Bilayer disruption and liposome restructuring by a homologous series of small Arg-rich synthetic peptides. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010, 76, 76-81.	5.0	24
27	Peptide Amphiphile Containing Arginine and Fatty Acyl Chains as Molecular Transporters. <i>Molecular Pharmaceutics</i> , 2013, 10, 4717-4727.	4.6	24
28	Hydrophobic Nanoparticles Modify the Thermal Release Behavior of Liposomes. <i>Journal of Physical Chemistry B</i> , 2017, 121, 5040-5047.	2.6	24
29	Dominant entropic binding of perfluoroalkyl substances (PFASs) to albumin protein revealed by ¹⁹ F NMR. <i>Chemosphere</i> , 2021, 263, 128083.	8.2	24
30	Homeoviscous response of <i>Clostridium pasteurianum</i> to butanol toxicity during glycerol fermentation. <i>Journal of Biotechnology</i> , 2014, 179, 8-14.	3.8	23
31	Near-Infrared Responsive Gold–Layersome Nanoshells. <i>Langmuir</i> , 2017, 33, 5321-5327.	3.5	23
32	Cationic Gel-Phase Liposomes with –Decorated–Anionic SPIO Nanoparticles: Morphology, Colloidal, and Bilayer Properties. <i>Langmuir</i> , 2011, 27, 8645-8652.	3.5	21
33	Phospholipid Bilayer Softening Due to Hydrophobic Gold Nanoparticle Inclusions. <i>Langmuir</i> , 2018, 34, 13416-13425.	3.5	21
34	Replacement per- and polyfluoroalkyl substances (PFAS) are potent modulators of lipogenic and drug metabolizing gene expression signatures in primary human hepatocytes. <i>Toxicology and Applied Pharmacology</i> , 2022, 442, 115991.	2.8	21
35	n-Butanol Partitioning and Phase Behavior in DPPC/DOPC Membranes. <i>Journal of Physical Chemistry B</i> , 2012, 116, 5919-5924.	2.6	19
36	Carbon Nanotube–Liposome Complexes in Hydrogels for Controlled Drug Delivery via Near-Infrared Laser Stimulation. <i>ACS Applied Nano Materials</i> , 2021, 4, 331-342.	5.0	19

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37	Radiofrequency and Near-Infrared Responsive Core-Shell Nanostructures Using Layered Templates for Cancer Treatment. <i>ACS Applied Bio Materials</i> , 2020, 3, 273-281.	4.6	17
38	Gas antisolvent fractionation of semicrystalline and amorphous poly(lactic acid) using compressed CO ₂ . <i>Polymer</i> , 2002, 43, 4445-4452.	3.8	16
39	Solubility and partitioning of carbamazepine in a two-phase supercritical carbon dioxide/polyvinylpyrrolidone system. <i>International Journal of Pharmaceutics</i> , 2011, 403, 96-100.	5.2	15
40	Role of tail chemistry on liquid and gas transport through organosilane-modified mesoporous ceramic membranes. <i>Journal of Membrane Science</i> , 2007, 301, 162-170.	8.2	13
41	Transformation of Lipid Vesicles into Micelles by Adding Nonionic Surfactants: Elucidating the Structural Pathway and the Intermediate Structures. <i>Journal of Physical Chemistry B</i> , 2022, 126, 2208-2216.	2.6	13
42	Radio Frequency-Activated Nanoliposomes for Controlled Combination Drug Delivery. <i>AAPS PharmSciTech</i> , 2015, 16, 1335-1343.	3.3	12
43	Patchy Layersomes Formed by Layer-by-Layer Coating of Liposomes with Strong Biopolyelectrolytes. <i>Biomacromolecules</i> , 2016, 17, 3838-3844.	5.4	12
44	Organic Anion Detection with Functionalized SERS Substrates via Coupled Electrokinetic Preconcentration, Analyte Capture, and Charge Transfer. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 23964-23972.	8.0	12
45	Solvent-dependent permeability in asymmetric ceramic membranes with tortuous or non-tortuous mesopores. <i>Journal of Membrane Science</i> , 2008, 325, 982-988.	8.2	10
46	Surface Activity of Lysozyme and Dipalmitoyl Phosphatidylcholine Vesicles at Compressed and Supercritical Fluid Interfaces. <i>Journal of Physical Chemistry B</i> , 2005, 109, 24495-24501.	2.6	9
47	Formation of Lipid Sheaths around Nanoparticle-Supported Lipid Bilayers. <i>Small</i> , 2012, 8, 1740-1751.	10.0	9
48	n-Butanol Partitioning into Phase-Separated Heterogeneous Lipid Monolayers. <i>Langmuir</i> , 2013, 29, 10817-10823.	3.5	9
49	Cooperative effects of fatty acids and n-butanol on lipid membrane phase behavior. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 139, 62-67.	5.0	9
50	Does the Solvent in a Dispersant Impact the Efficiency of Crude-Oil Dispersion?. <i>Langmuir</i> , 2019, 35, 16630-16639.	3.5	9
51	Carbon Black Templated Gold Nanoparticles for Detection of a Broad Spectrum of Analytes by Surface-Enhanced Raman Scattering. <i>ACS Applied Nano Materials</i> , 2020, 3, 2605-2613.	5.0	9
52	Effects of Membrane Defects and Polymer Hydrophobicity on Networking Kinetics of Vesicles. <i>Langmuir</i> , 2017, 33, 5745-5751.	3.5	8
53	Surface Activity of Poly(ethylene glycol)-Coated Silver Nanoparticles in the Presence of a Lipid Monolayer. <i>Langmuir</i> , 2018, 34, 2039-2045.	3.5	8
54	Liposome fluidization and melting point depression by compressed and liquid n-alkanes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2006, 279, 50-57.	4.7	7

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55	Molecular and phase toxicity of compressed and supercritical fluids in biphasic continuous cultures of <i>Clostridium thermocellum</i> . <i>Biotechnology and Bioengineering</i> , 2005, 89, 32-41.	3.3	6
56	Phase and sedimentation behavior of oil (octane) dispersions in the presence of model mineral aggregates. <i>Marine Pollution Bulletin</i> , 2014, 87, 164-170.	5.0	6
57	Tuning the Multifunctionality of Iron Oxide Nanoparticles Using Self-Assembled Mixed Lipid Layers. <i>Bioconjugate Chemistry</i> , 2017, 28, 2729-2736.	3.6	6
58	Albumin protein coronas render nanoparticles surface active: consonant interactions at air-water and at lipid monolayer interfaces. <i>Environmental Science: Nano</i> , 2021, 8, 160-173.	4.3	6
59	PFAS fluidize synthetic and bacterial lipid monolayers based on hydrophobicity and lipid charge. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107351.	6.7	6
60	In situ SERS detection of dissolved nitrate on hydrated gold substrates. <i>Nanoscale Advances</i> , 2021, 3, 4098-4105.	4.6	5
61	Sorption and hydration effects on liquid carbon dioxide transport through mesoporous γ -alumina and titania membranes. <i>Journal of Membrane Science</i> , 2006, 281, 149-155.	8.2	4
62	Using Microemulsion Phase Behavior as a Predictive Model for Lecithin-Tween 80 Marine Oil Dispersant Effectiveness. <i>Langmuir</i> , 2021, 37, 8115-8128.	3.5	2
63	Ultrafiltration of W/CO ₂ Microemulsions in Ceramic Membranes. <i>Separation Science and Technology</i> , 2006, 41, 2603-2612.	2.5	1
64	Role of Ionic Strength on <i>n</i> -Butanol Partitioning into Anionic Dipalmitoyl Phosphatidylcholine/Phosphatidylglycerol Vesicles. <i>Journal of Physical Chemistry B</i> , 2013, 117, 8484-8489.	2.6	1
65	Transport of liquid and supercritical CO ₂ and selected organic solvents through surface modified mesoporous γ -alumina and titania membranes. <i>Separation Science and Technology</i> , 2019, 54, 2098-2111.	2.5	1