

William G Pitt

List of Publications by Year in descending order

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138
papers

7,153
citations

43973

48
h-index

64668

79
g-index

138
all docs

138
docs citations

138
times ranked

6541
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrasonic drug delivery – a general review. <i>Expert Opinion on Drug Delivery</i> , 2004, 1, 37-56.	2.4	518
2	Micelles and nanoparticles for ultrasonic drug and gene delivery. <i>Advanced Drug Delivery Reviews</i> , 2008, 60, 1137-1152.	6.6	405
3	Ultrasound Increases the Rate of Bacterial Cell Growth. <i>Biotechnology Progress</i> , 2003, 19, 1038-1044.	1.3	267
4	Factors affecting acoustically triggered release of drugs from polymeric micelles. <i>Journal of Controlled Release</i> , 2000, 69, 43-52.	4.8	216
5	Drug delivery in pluronic micelles: effect of high-frequency ultrasound on drug release from micelles and intracellular uptake. <i>Journal of Controlled Release</i> , 2002, 84, 39-47.	4.8	194
6	Drug delivery in polymeric micelles: from in vitro to in vivo. <i>Journal of Controlled Release</i> , 2003, 91, 85-95.	4.8	180
7	The role of cavitation in acoustically activated drug delivery. <i>Journal of Controlled Release</i> , 2005, 107, 253-261.	4.8	145
8	The upside-down water collection system of <i>Syntrichia caninervis</i> . <i>Nature Plants</i> , 2016, 2, 16076.	4.7	137
9	Cell-free protein synthesis of a cytotoxic cancer therapeutic: Onconase production and a just-water cell-free system. <i>Biotechnology Journal</i> , 2016, 11, 274-281.	1.8	129
10	Treatment of biofilm infections on implants with low-frequency ultrasound and antibiotics. <i>American Journal of Infection Control</i> , 2005, 33, 78-82.	1.1	126
11	Micellar delivery of doxorubicin and its paramagnetic analog, ruboxyl, to HL-60 cells: effect of micelle structure and ultrasound on the intracellular drug uptake. <i>Journal of Controlled Release</i> , 1999, 58, 153-162.	4.8	117
12	Sequential protein adsorption and thrombus deposition on polymeric biomaterials. <i>Journal of Colloid and Interface Science</i> , 1986, 111, 343-362.	5.0	116
13	Pulsed Ultrasound Enhances the Killing of <i>Escherichia coli</i> Biofilms by Aminoglycoside Antibiotics In Vivo. <i>Antimicrobial Agents and Chemotherapy</i> , 2000, 44, 771-772.	1.4	114
14	The effect of ultrasonic frequency upon enhanced killing of <i>P. aeruginosa</i> biofilms. <i>Annals of Biomedical Engineering</i> , 1997, 25, 69-76.	1.3	113
15	Ultrasonic Enhancement of Antibiotic Action on <i>Escherichia coli</i> Biofilms: an In Vivo Model. <i>Antimicrobial Agents and Chemotherapy</i> , 1999, 43, 1211-1214.	1.4	112
16	Ultrasonically activated chemotherapeutic drug delivery in a rat model. <i>Cancer Research</i> , 2002, 62, 7280-3.	0.4	109
17	Ultrasonic-enhanced gentamicin transport through colony biofilms of <i>Pseudomonas aeruginosa</i> and <i>Escherichia coli</i> . <i>Journal of Infection and Chemotherapy</i> , 2004, 10, 193-199.	0.8	103
18	Ultrasonic release of doxorubicin from Pluronic P105 micelles stabilized with an interpenetrating network of N,N-diethylacrylamide. <i>Journal of Controlled Release</i> , 2002, 83, 303-305.	4.8	94

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19	Ultrasonic activated drug delivery from Pluronic P-105 micelles. <i>Cancer Letters</i> , 1997, 118, 13-19.	3.2	92
20	Ultrasound sensitive eLiposomes containing doxorubicin for drug targeting therapy. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2014, 10, 67-76.	1.7	92
21	Attachment of hyaluronic acid to polypropylene, polystyrene, and polytetrafluoroethylene. <i>Biomaterials</i> , 2000, 21, 31-36.	5.7	90
22	Kinetics of ultrasonic release of doxorubicin from pluronic P105 micelles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2002, 24, 253-264.	2.5	88
23	The Role of Cavitation in Liposome Formation. <i>Biophysical Journal</i> , 2007, 93, 4100-4107.	0.2	87
24	Effect of low-intensity ultrasound upon biofilm structure from confocal scanning laser microscopy observation. <i>Biomaterials</i> , 1996, 17, 1975-1980.	5.7	82
25	Bacterial adhesion to orthopedic implant polymers. , 1996, 30, 403-410.		80
26	Focused ultrasound-induced blood-brain barrier opening for non-viral, non-invasive, and targeted gene delivery. <i>Journal of Controlled Release</i> , 2015, 212, 1-9.	4.8	79
27	Release of Doxorubicin from Unstabilized and Stabilized Micelles Under the Action of Ultrasound. <i>Journal of Nanoscience and Nanotechnology</i> , 2007, 7, 1028-1033.	0.9	77
28	Low-frequency ultrasound increases outer membrane permeability of <i>Pseudomonas aeruginosa</i> . <i>Journal of General and Applied Microbiology</i> , 2006, 52, 295-301.	0.4	76
29	Investigation of the mechanism of the bioacoustic effect. , 1999, 44, 198-205.		74
30	Stabilization of Pluronic P-105 Micelles with an Interpenetrating Network of N,N-Diethylacrylamide. <i>Macromolecules</i> , 2000, 33, 9306-9309.	2.2	74
31	Drug Delivery Systems Based on Polymeric Micelles and Ultrasound: A Review. <i>Current Pharmaceutical Design</i> , 2016, 22, 2796-2807.	0.9	74
32	Fabrication of a continuous wettability gradient by radio frequency plasma discharge. <i>Journal of Colloid and Interface Science</i> , 1989, 133, 223-227.	5.0	72
33	Ultrasonic-Activated Micellar Drug Delivery for Cancer Treatment. <i>Journal of Pharmaceutical Sciences</i> , 2009, 98, 795-811.	1.6	71
34	Ultrasonic gene and drug delivery using eLiposomes. <i>Journal of Controlled Release</i> , 2013, 167, 92-100.	4.8	71
35	Rapid separation of bacteria from blood—review and outlook. <i>Biotechnology Progress</i> , 2016, 32, 823-839.	1.3	71
36	Encapsulating Nanoemulsions Inside eLiposomes for Ultrasonic Drug Delivery. <i>Langmuir</i> , 2012, 28, 14720-14729.	1.6	70

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37	Acoustic Droplet Vaporization in Biology and Medicine. <i>BioMed Research International</i> , 2013, 2013, 1-13.	0.9	69
38	DNA damage induced by micellar-delivered doxorubicin and ultrasound: comet assay study. <i>Cancer Letters</i> , 2000, 154, 211-216.	3.2	66
39	Ultrasonically triggered drug delivery: Breaking the barrier. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 123, 364-386.	2.5	65
40	Ultrasound-Responsive Nanocarriers in Cancer Treatment: A Review. <i>ACS Pharmacology and Translational Science</i> , 2021, 4, 589-612.	2.5	65
41	The effect of frequency and power density on the ultrasonically-enhanced killing of biofilm-sequestered <i>Escherichia coli</i> . <i>Colloids and Surfaces B: Biointerfaces</i> , 2000, 17, 219-227.	2.5	64
42	pH-Responsive Nanocarriers in Cancer Therapy. <i>Polymers</i> , 2022, 14, 936.	2.0	63
43	Air-water interface displaces adsorbed bacteria. <i>Biomaterials</i> , 1993, 14, 605-608.	5.7	62
44	The Use of Ultrasound and Micelles in Cancer Treatment. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 2205-2215.	0.9	62
45	Sequestration and Ultrasound-Induced Release of Doxorubicin from Stabilized Pluronic P105 Micelles. <i>Drug Delivery</i> , 2002, 9, 253-258.	2.5	61
46	Attachment of hyaluronan to metallic surfaces. <i>Journal of Biomedical Materials Research Part B</i> , 2004, 68A, 95-106.	3.0	53
47	Bacterial adhesion to poly(HEMA)-based hydrogels. <i>Journal of Biomedical Materials Research Part B</i> , 1993, 27, 119-126.	3.0	52
48	Formation of eLiposomes as a drug delivery vehicle. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012, 89, 93-100.	2.5	51
49	Ultrasonic enhancement of antibiotic action on several species of bacteria.. <i>Journal of General and Applied Microbiology</i> , 1998, 44, 283-288.	0.4	50
50	Phase transitions of perfluorocarbon nanoemulsion induced with ultrasound: A mathematical model. <i>Ultrasonics Sonochemistry</i> , 2014, 21, 879-891.	3.8	49
51	Investigating the mechanism of acoustically activated uptake of drugs from Pluronic micelles. <i>BMC Cancer</i> , 2002, 2, 20.	1.1	48
52	Modeling carbon black/polymer composite sensors. <i>Sensors and Actuators B: Chemical</i> , 2007, 125, 396-407.	4.0	48
53	Investigating the acoustic release of doxorubicin from targeted micelles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 101, 153-155.	2.5	47
54	Treatment of bacterial biofilms on polymeric biomaterials using antibiotics and ultrasound. <i>Journal of Biomaterials Science, Polymer Edition</i> , 1998, 9, 1177-1185.	1.9	45

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55	Intracellular uptake of Pluronic copolymer: effects of the aggregation state. <i>Colloids and Surfaces B: Biointerfaces</i> , 2002, 25, 233-241.	2.5	44
56	The influence of plasma gas species on the adhesion of thermoplastic to organic fibers. <i>Journal of Applied Polymer Science</i> , 1993, 48, 845-856.	1.3	42
57	Phase transitions of nanoemulsions using ultrasound: Experimental observations. <i>Ultrasonics Sonochemistry</i> , 2012, 19, 1120-1125.	3.8	42
58	Measurement of bacterial growth rates on polymers. , 1996, 32, 271-278.		40
59	Modeling and Sensitivity Analysis of Acoustic Release of Doxorubicin from Unstabilized Pluronic P105 Using an Artificial Neural Network Model. <i>Technology in Cancer Research and Treatment</i> , 2007, 6, 49-56.	0.8	40
60	Ultrasound-Induced Calcein Release From eLiposomes. <i>Ultrasound in Medicine and Biology</i> , 2012, 38, 2163-2173.	0.7	40
61	Resistivity measurements of carbonâ€“polymer composites in chemical sensors: impact of carbon concentration and geometry. <i>Sensors and Actuators B: Chemical</i> , 2004, 101, 122-132.	4.0	39
62	Dual-Targeting and Stimuli-Triggered Liposomal Drug Delivery in Cancer Treatment. <i>ACS Pharmacology and Translational Science</i> , 2021, 4, 1028-1049.	2.5	39
63	The Comet Assay to Determine the Mode of Cell Death for the Ultrasonic Delivery of Doxorubicin to Human Leukemia (HL-60 Cells) from Pluronic P105 Micelles. <i>Technology in Cancer Research and Treatment</i> , 2005, 4, 707-711.	0.8	38
64	Poly(ethylene oxide)-b-poly(N-isopropylacrylamide) nanoparticles with cross-linked cores as drug carriers. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2005, 16, 371-380.	1.9	36
65	Further investigation of the mechanism of Doxorubicin release from P105 micelles using kinetic models. <i>Colloids and Surfaces B: Biointerfaces</i> , 2007, 55, 59-66.	2.5	34
66	Role of frequency and mechanical index in ultrasonic-enhanced chemotherapy in rats. <i>Cancer Chemotherapy and Pharmacology</i> , 2009, 64, 593-600.	1.1	33
67	Using Artificial Neural Networks and Model Predictive Control to Optimize Acoustically Assisted Doxorubicin Release from Polymeric Micelles. <i>Technology in Cancer Research and Treatment</i> , 2009, 8, 479-488.	0.8	33
68	Distribution of Doxorubicin in Rats Undergoing Ultrasonic Drug Delivery. <i>Journal of Pharmaceutical Sciences</i> , 2010, 99, 3122-3131.	1.6	33
69	Towards detection of SARS-CoV-2 RNA in human saliva: A paper-based cell-free toehold switch biosensor with a visual bioluminescent output. <i>New Biotechnology</i> , 2022, 66, 53-60.	2.4	33
70	A polymeric micelle system with a hydrolysable segment for drug delivery. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2006, 17, 591-604.	1.9	32
71	Over-Pressure Suppresses Ultrasonic-Induced Drug Uptake. <i>Ultrasound in Medicine and Biology</i> , 2009, 35, 409-415.	0.7	31
72	Dynamic removal of oral biofilms by bubbles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2006, 52, 39-46.	2.5	30

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73	Thermosensitive Polymers and Thermo-Responsive Liposomal Drug Delivery Systems. <i>Polymers</i> , 2022, 14, 925.	2.0	30
74	The role of insonation intensity in acoustic-enhanced antibiotic treatment of bacterial biofilms. <i>Colloids and Surfaces B: Biointerfaces</i> , 1997, 9, 239-245.	2.5	29
75	Removal of oral biofilm by sonic phenomena. <i>American Journal of Dentistry</i> , 2005, 18, 345-52.	0.1	27
76	Rapid loading and prolonged release of latanoprost from a silicone hydrogel contact lens. <i>Journal of Drug Delivery Science and Technology</i> , 2017, 41, 410-418.	1.4	26
77	Ultrasound in drug and gene delivery. <i>Advanced Drug Delivery Reviews</i> , 2008, 60, 1095-1096.	6.6	25
78	Kinetics and thermodynamics of acoustic release of doxorubicin from non-stabilized polymeric micelles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010, 359, 18-24.	2.3	25
79	Bacterial Adhesion to Protein-Coated Hydrogels. <i>Journal of Biomaterials Applications</i> , 1993, 8, 72-89.	1.2	24
80	Removal of <i>Streptococcus mutans</i> biofilm by bubbles. <i>Journal of Clinical Periodontology</i> , 2005, 32, 1151-1156.	2.3	24
81	Degradation kinetics of stabilized Pluronic micelles under the action of ultrasound. <i>Journal of Controlled Release</i> , 2009, 138, 45-48.	4.8	24
82	In Vitro Response of <i>Escherichia Coli</i> to Antibiotics and Ultrasound at Various Insonation Intensities. <i>Journal of Biomaterials Applications</i> , 1997, 12, 20-30.	1.2	23
83	Water Structure around Enkephalin near a PE Surface: A Molecular Dynamics Study. <i>Journal of Colloid and Interface Science</i> , 1998, 203, 47-58.	5.0	23
84	Comparison of corneal epithelial cellular growth on synthetic cornea materials. <i>Biomaterials</i> , 2002, 23, 1369-1373.	5.7	23
85	Loading and Release of a Phospholipid From Contact Lenses. <i>Optometry and Vision Science</i> , 2011, 88, 502-506.	0.6	23
86	Preliminary Results of Combining Low Frequency Low Intensity Ultrasound and Liposomal Drug Delivery to Treat Tumors in Rats. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 1866-1870.	0.9	23
87	Sticking coefficients of adsorbing proteins. <i>Biomaterials</i> , 1992, 13, 577-584.	5.7	22
88	Optimizing the use of ultrasound to deliver chemotherapeutic agents to cancer cells from polymeric micelles. <i>Journal of the Franklin Institute</i> , 2011, 348, 1276-1284.	1.9	21
89	Kinetics of Ultrasonic Drug Delivery from Targeted Micelles. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 2099-2104.	0.9	21
90	Rapid separation of very low concentrations of bacteria from blood. <i>Journal of Microbiological Methods</i> , 2017, 139, 48-53.	0.7	21

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91	Photo-Induced Drug Release from Polymeric Micelles and Liposomes: Phototriggering Mechanisms in Drug Delivery Systems. <i>Polymers</i> , 2022, 14, 1286.	2.0	21
92	Effects of ultrasonic treatment on the efficacy of gentamicin against established <i>Pseudomonas aeruginosa</i> biofilms. <i>Colloids and Surfaces B: Biointerfaces</i> , 1996, 6, 235-242.	2.5	19
93	Mathematical modeling of microbubble cavitation at 70 kHz and the importance of the subharmonic in drug delivery from micelles. <i>Ultrasonics</i> , 2013, 53, 97-110.	2.1	19
94	Quantitation of cholesterol and phospholipid sorption on silicone hydrogel contact lenses. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2013, 101, 1516-1523.	1.6	19
95	Sequence-specific sepsis-related DNA capture and fluorescent labeling in monoliths prepared by single-step photopolymerization in microfluidic devices. <i>Journal of Chromatography A</i> , 2018, 1562, 12-18.	1.8	19
96	Latanoprost uptake and release from commercial contact lenses. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2020, 31, 1-19.	1.9	19
97	3D-Printed Microfluidic Droplet Generator with Hydrophilic and Hydrophobic Polymers. <i>Micromachines</i> , 2021, 12, 91.	1.4	19
98	Properties of extruded poly(tetramethylene oxide) Polyurethane block copolymers for blood-contacting applications. <i>Biomaterials</i> , 1987, 8, 329-340.	5.7	18
99	Rapid separation of bacteria from blood – Chemical aspects. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 154, 365-372.	2.5	18
100	Comparing microbubble cavitation at 500 kHz and 70 kHz related to micellar drug delivery using ultrasound. <i>Ultrasonics</i> , 2013, 53, 377-386.	2.1	16
101	Drop on a bent fibre. <i>Soft Matter</i> , 2018, 14, 3724-3729.	1.2	15
102	Kinetics of acoustic release of doxorubicin from stabilized and unstabilized micelles and the effect of temperature. <i>Journal of the Franklin Institute</i> , 2011, 348, 125-133.	1.9	14
103	Prevention and Removal of Lipid Deposits by Lens Care Solutions and Rubbing. <i>Optometry and Vision Science</i> , 2014, 91, 1430-1439.	0.6	14
104	Removal of oral biofilms by bubbles. <i>Journal of the American Dental Association</i> , 2005, 136, 1688-1693.	0.7	13
105	Defining the Role of Ultrasound in Drug Delivery. <i>American Journal of Drug Delivery</i> , 2003, 1, 27-42.	0.6	12
106	Transport of Phospholipid in Silicone Hydrogel Contact Lenses. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2012, 23, 527-541.	1.9	11
107	Cytosolic delivery via escape from the endosome using emulsion droplets and ultrasound. <i>Journal of Drug Targeting</i> , 2015, 23, 469-479.	2.1	11
108	The role of multi-purpose solutions in prevention and removal of lipid depositions on contact lenses. <i>Contact Lens and Anterior Eye</i> , 2014, 37, 405-414.	0.8	10

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109	Heat set creases in polyethylene terephthalate (PET) sheets to enable origami-based applications. <i>Smart Materials and Structures</i> , 2019, 28, 115047.	1.8	10
110	Fibronectin adsorption kinetics on phase segregated polyurethaneureas. <i>Journal of Biomaterials Science, Polymer Edition</i> , 1993, 4, 337-346.	1.9	9
111	Calculation of Protein-Polymer Force Fields Using Molecular Dynamics. <i>Journal of Colloid and Interface Science</i> , 1997, 185, 258-264.	5.0	9
112	Monoalkyl viologens are effective carbohydrate O ₂ -oxidation catalysts for electrical energy generation by fuel cells. <i>Renewable Energy</i> , 2012, 46, 218-223.	4.3	9
113	3D hydrodynamic focusing in microscale channels formed with two photoresist layers. <i>Microfluidics and Nanofluidics</i> , 2019, 23, 1.	1.0	9
114	Low fluorescence background electroblotting membrane for DNA sequencing. <i>Electrophoresis</i> , 1992, 13, 105-114.	1.3	8
115	Improving adhesion in interleaf composites using plasma processing. <i>Journal of Applied Polymer Science</i> , 1995, 56, 461-469.	1.3	8
116	Extended elution of phospholipid from silicone hydrogel contact lenses. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2015, 26, 224-234.	1.9	7
117	Investigating the Stability of eLiposomes at Elevated Temperatures. <i>Technology in Cancer Research and Treatment</i> , 2015, 14, 379-382.	0.8	7
118	Investigating the Release Mechanism of Calcein from eLiposomes at Higher Temperatures. <i>Journal of Colloid Science and Biotechnology</i> , 2014, 3, 239-244.	0.2	7
119	Codelivery of Doxorubicin and Verapamil for Treating Multidrug Resistant Cancer Cells. <i>Pharmaceutical Nanotechnology</i> , 2018, 6, 116-123.	0.6	7
120	Factors Affecting Ultrasonic Release from eLiposomes. <i>Journal of Pharmaceutical Sciences</i> , 2015, 104, 1373-1384.	1.6	6
121	Factors affecting sedimentational separation of bacteria from blood. <i>Biotechnology Progress</i> , 2020, 36, e2892.	1.3	6
122	Selection of polymeric sensor arrays for quantitative analysis. <i>Sensors and Actuators B: Chemical</i> , 2007, 120, 386-391.	4.0	5
123	Analysis of Identification Method for Bacterial Species and Antibiotic Resistance Genes Using Optical Data From DNA Oligomers. <i>Frontiers in Microbiology</i> , 2020, 11, 257.	1.5	5
124	A New Technique to Improve Adhesion of Polyaramid Fibers to Thermoplastic. <i>Journal of Thermoplastic Composite Materials</i> , 1991, 4, 253-265.	2.6	4
125	Cyclic Voltammetry Investigation of Organic Species Considered for Use as Catalysts in Direct-Carbohydrate Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2012, 159, H834-H841.	1.3	4
126	On bubbles and liposomes (June 11, 2007). <i>Journal of Controlled Release</i> , 2008, 125, 174-175.	4.8	3

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127	An experimental investigation of interfacial instability in separated blood. AICHE Journal, 2019, 65, 1376-1386.	1.8	3
128	Baseline effects of lysophosphatidylcholine and nerve growth factor in a rat model of sciatic nerve regeneration after crush injury. Neural Regeneration Research, 2018, 13, 846.	1.6	3
129	Water structure around enkephalin near a GeO ₂ surface: a molecular dynamics study. Journal of Biomaterials Science, Polymer Edition, 2002, 13, 885-906.	1.9	2
130	Measurement of Activities of Toluene and Trichloroethylene in Polyisobutylene. Journal of Chemical & Engineering Data, 2007, 52, 2233-2236.	1.0	2
131	Comments on protein adsorption on polymer surfaces: calculation of adsorption energies. Journal of Biomaterials Science, Polymer Edition, 1991, 2, 317-320.	1.9	1
132	Investigation of the mechanism of the bioacoustic effect. , 1999, 44, 198.		1
133	Non-Viral Gene Transfection with Ultrasound: Is 100% Transfection Possible?. Advanced Science Letters, 2012, 11, 98-105.	0.2	1
134	Development of Ultrasound Sensitive eLiposomes Containing Doxorubicin for Drug Delivery. British Journal of Pharmaceutical Research, 2014, 4, 2296-2311.	0.4	1
135	Fibronectin adsorption kinetics on phase segregated polyurethaneureas. Journal of Biomaterials Science, Polymer Edition, 1993, 4, 337-346.	1.9	1
136	A Comparison between Dialkyl and Monoalkyl Viologens for Use in Direct-Carbohydrate Fuel Cells. ECS Transactions, 2011, 41, 1737-1745.	0.3	0
137	Effect of dilution on sedimentational separation of bacteria from blood. Biotechnology Progress, 2020, 36, e3056.	1.3	0
138	A pentaplex real-time PCR assay for rapid identification of major beta-lactamase genes KPC, NDM, CTX, CMY, and OXA-48 directly from bacteria in blood. Journal of Medical Microbiology, 2021, 70, .	0.7	0