

Andrew P Goodwin

List of Publications by Year in descending order

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55
papers

2,567
citations

279487

23
h-index

189595

50
g-index

55
all docs

55
docs citations

55
times ranked

4478
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Covalent Photoconjugation of Affibodies to Epidermal Growth Factor Receptor (EGFR) on Cellular Quiescence. <i>Biotechnology and Bioengineering</i> , 2022, 119, 187-198.	1.7	1
2	Insulin Fibril Formation Caused by Mechanical Shock and Cavitation. <i>Journal of Physical Chemistry B</i> , 2021, 125, 8021-8027.	1.2	6
3	Hydrogel Coatings on Container Surfaces Reduce Protein Aggregation Caused by Mechanical Stress and Cavitation. <i>ACS Applied Bio Materials</i> , 2021, 4, 6946-6953.	2.3	1
4	Investigating the use of conducting oligomers and redox molecules in CdS@MoFeP biohybrids. <i>Nanoscale Advances</i> , 2021, 3, 1392-1396.	2.2	2
5	Generation of 3D cellular spheroids using DNA modified cell receptors and programmable DNA interactions. <i>Biomaterials Science</i> , 2021, 9, 7911-7920.	2.6	2
6	Mechanochemistry Activated Covalent Conjugation Reactions in Soft Hydrogels Induced by Interfacial Failure. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 1486-1492.	4.0	6
7	Hydrophobically Modified Silica-Coated Gold Nanorods for Generating Nonlinear Photoacoustic Signals. <i>ACS Applied Nano Materials</i> , 2021, 4, 12073-12082.	2.4	3
8	Investigating Protein@Nanocrystal Interactions for Photodriven Activity. <i>ACS Applied Bio Materials</i> , 2020, 3, 1026-1035.	2.3	8
9	Enzymes Photo-Cross-Linked to Live Cell Receptors Retain Activity and EGFR Inhibition after Both Internalization and Recycling. <i>Bioconjugate Chemistry</i> , 2020, 31, 104-112.	1.8	6
10	Nongenetic Bioconjugation Strategies for Modifying Cell Membranes and Membrane Proteins: A Review. <i>Bioconjugate Chemistry</i> , 2020, 31, 2465-2475.	1.8	17
11	The Effect of Container Surface Passivation on Aggregation of Intravenous Immunoglobulin Induced by Mechanical Shock. <i>Biotechnology Journal</i> , 2020, 15, e2000096.	1.8	9
12	Phospholipid-Coated Hydrophobic Mesoporous Silica Nanoparticles Enhance Thrombectomy by High-Intensity Focused Ultrasound with Low Production of Embolism-Inducing Clot Debris. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 36324-36332.	4.0	13
13	Solar Photocatalytic Phenol Polymerization and Hydrogen Generation for Flocculation of Wastewater Impurities. <i>ACS Applied Polymer Materials</i> , 2019, 1, 1451-1457.	2.0	4
14	Surface-Templated Nanobubbles Protect Proteins from Surface-Mediated Denaturation. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 2641-2647.	2.1	8
15	Temperature-Responsive Hydrophobic Silica Nanoparticle Ultrasound Contrast Agents Directed by Phospholipid Phase Behavior. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 15233-15240.	4.0	16
16	Colloids, nanoparticles, and materials for imaging, delivery, ablation, and theranostics by focused ultrasound (FUS). <i>Theranostics</i> , 2019, 9, 2572-2594.	4.6	42
17	Click Nucleic Acid Mediated Loading of Prodrug Activating Enzymes in PEG@PLGA Nanoparticles for Combination Chemotherapy. <i>Biomacromolecules</i> , 2019, 20, 1683-1690.	2.6	14
18	Design and application of stimulus-responsive droplets and bubbles stabilized by phospholipid monolayers. <i>Current Opinion in Colloid and Interface Science</i> , 2019, 40, 14-24.	3.4	6

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19	Nanoparticle-Mediated Acoustic Cavitation Enables High Intensity Focused Ultrasound Ablation Without Tissue Heating. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 36786-36795.	4.0	48
20	Anti-EGFR Affibodies with Site-Specific Photo-Cross-Linker Incorporation Show Both Directed Target-Specific Photoconjugation and Increased Retention in Tumors. <i>Journal of the American Chemical Society</i> , 2018, 140, 11820-11828.	6.6	13
21	Polyacrylamide Hydrogels Produce Hydrogen Peroxide from Osmotic Swelling in Aqueous Media. <i>Biomacromolecules</i> , 2018, 19, 3421-3426.	2.6	10
22	TiO ₂ -Capped Gold Nanorods for Plasmon-Enhanced Production of Reactive Oxygen Species and Photothermal Delivery of Chemotherapeutic Agents. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 27965-27971.	4.0	36
23	Contact Line Pinning Is Not Required for Nanobubble Stability on Copolymer Brushes. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 4239-4244.	2.1	23
24	DNA-Assembled Core-Satellite Upconverting-Metal-Organic Framework Nanoparticle Superstructures for Efficient Photodynamic Therapy. <i>Small</i> , 2017, 13, 1700504.	5.2	114
25	Multicatalytic, Light-Driven Upgrading of Butanol to 2-Ethylhexenal and Hydrogen under Mild Aqueous Conditions. <i>ACS Catalysis</i> , 2017, 7, 568-572.	5.5	27
26	Conversion of Ethanol to 2-Ethylhexenal at Ambient Conditions Using Tandem, Biphasic Catalysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 10483-10489.	3.2	6
27	Light-Driven Catalytic Upgrading of Butanol in a Biohybrid Photoelectrochemical System. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 8199-8204.	3.2	16
28	Phospholipid Capped Mesoporous Nanoparticles for Targeted High Intensity Focused Ultrasound Ablation. <i>Advanced Healthcare Materials</i> , 2017, 6, 1700514.	3.9	31
29	Nanoparticles Formed by Acoustic Destruction of Microbubbles and Their Utilization for Imaging and Effects on Therapy by High Intensity Focused Ultrasound. <i>Theranostics</i> , 2017, 7, 694-702.	4.6	36
30	Stable Encapsulation of Air in Mesoporous Silica Nanoparticles: Fluorocarbon-Free Nanoscale Ultrasound Contrast Agents. <i>Advanced Healthcare Materials</i> , 2016, 5, 1290-1298.	3.9	61
31	Phase behavior of mixed lipid monolayers on perfluorocarbon nanoemulsions and its effect on acoustic contrast. <i>RSC Advances</i> , 2016, 6, 111318-111325.	1.7	24
32	Depolymerizable Poly(vinyl carbamate-sulfones) as Customizable Macromolecular Scaffolds for Mucosal Drug Delivery. <i>ACS Macro Letters</i> , 2016, 5, 636-640.	2.3	17
33	Understanding Acoustic Cavitation Initiation by Porous Nanoparticles: Toward Nanoscale Agents for Ultrasound Imaging and Therapy. <i>Chemistry of Materials</i> , 2016, 28, 5962-5972.	3.2	56
34	Self-assembled gold nanostar-NaYF ₄ :Yb/Er clusters for multimodal imaging, photothermal and photodynamic therapy. <i>Journal of Materials Chemistry B</i> , 2016, 4, 4455-4461.	2.9	50
35	Catalytic Upgrading in Bacteria-Compatible Conditions via a Biocompatible Aldol Condensation. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 671-675.	3.2	26
36	Mutually-Reactive, Fluorogenic Hydrocyanine/Quinone Reporter Pairs for In-Solution Biosensing via Nanodroplet Association. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 802-808.	4.0	18

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37	Selective Vaporization of Superheated Nanodroplets for Rapid, Sensitive, Acoustic Biosensing. <i>Advanced Healthcare Materials</i> , 2015, 4, 1790-1795.	3.9	13
38	Alternating Sulfone Copolymers Depolymerize in Response to Both Chemical and Mechanical Stimuli. <i>ACS Macro Letters</i> , 2015, 4, 907-911.	2.3	23
39	Self-assembly and reassembly of fiber-forming dipeptides for pH-triggered DNA delivery. <i>Journal of Polymer Science Part A</i> , 2015, 53, 183-187.	2.5	1
40	Stimulus-responsive ultrasound contrast agents for clinical imaging: motivations, demonstrations, and future directions. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2015, 7, 111-123.	3.3	11
41	On-Demand Droplet Fusion: A Strategy for Stimulus-Responsive Biosensing in Solution. <i>Langmuir</i> , 2014, 30, 12321-12327.	1.6	7
42	Mechanochemical Reaction Cascade for Sensitive Detection of Covalent Bond Breakage in Hydrogels. <i>Chemistry of Materials</i> , 2014, 26, 6771-6776.	3.2	29
43	Direct conjugation of DNA to quantum dots for scalable assembly of photoactive thin films. <i>RSC Advances</i> , 2014, 4, 8064.	1.7	13
44	DNA Hybridization-Mediated Liposome Fusion at the Aqueous Liquid Crystal Interface. <i>Advanced Functional Materials</i> , 2014, 24, 3206-3212.	7.8	32
45	Nanoparticles for cancer imaging: The good, the bad, and the promise. <i>Nano Today</i> , 2013, 8, 454-460.	6.2	140
46	In vivo ultrasound visualization of non-occlusive blood clots with thrombin-sensitive contrast agents. <i>Biomaterials</i> , 2013, 34, 9559-9565.	5.7	25
47	Imparting the unique properties of DNA into complex material architectures and functions. <i>Materials Today</i> , 2013, 16, 290-296.	8.3	10
48	Aptamer-Crosslinked Microbubbles: Smart Contrast Agents for Thrombin-Activated Ultrasound Imaging. <i>Advanced Materials</i> , 2012, 24, 6010-6016.	11.1	68
49	Facile one-pot synthesis of polymer-phospholipid composite microbubbles with enhanced drug loading capacity for ultrasound-triggered therapy. <i>Soft Matter</i> , 2011, 7, 1656.	1.2	17
50	DNA-Coated Microbubbles with Biochemically Tunable Ultrasound Contrast Activity. <i>Advanced Materials</i> , 2011, 23, 4908-4912.	11.1	27
51	PEG Branched Polymer for Functionalization of Nanomaterials with Ultralong Blood Circulation. <i>Journal of the American Chemical Society</i> , 2009, 131, 4783-4787.	6.6	548
52	Two-photon degradable supramolecular assemblies of linear-dendritic copolymers. <i>Chemical Communications</i> , 2007, , 2081-2082.	2.2	91
53	Rapid, Efficient Synthesis of Heterobifunctional Biodegradable Dendrimers. <i>Journal of the American Chemical Society</i> , 2007, 129, 6994-6995.	6.6	112
54	Synthetic Micelle Sensitive to IR Light via a Two-Photon Process. <i>Journal of the American Chemical Society</i> , 2005, 127, 9952-9953.	6.6	344

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55	Acetals as pH-Sensitive Linkages for Drug Delivery. <i>Bioconjugate Chemistry</i> , 2004, 15, 1254-1263.	1.8	280