Adah Almutairi

List of Publications by Year
in descending order

55 papers	4,158 citations	136950 32 h-index	155660 55 g-index
55 all docs	55 docs citations	55 times ranked	6293 citing authors

#	Article	IF	Citations
1	Biocompatible Polymeric Nanoparticles Degrade and Release Cargo in Response to Biologically Relevant Levels of Hydrogen Peroxide. Journal of the American Chemical Society, 2012, 134, 15758-15764.	13.7	502
2	Photochemical mechanisms of light-triggered release from nanocarriers. Advanced Drug Delivery Reviews, 2012, 64, 1005-1020.	13.7	425
3	Direct Evidence for Coupled Surface and Concentration Quenching Dynamics in Lanthanide-Doped Nanocrystals. Journal of the American Chemical Society, 2017, 139, 3275-3282.	13.7	420
4	UV and Near-IR Triggered Release from Polymeric Nanoparticles. Journal of the American Chemical Society, 2010, 132, 9540-9542.	13.7	343
5	Layered hydrogels accelerate iPSC-derived neuronal maturation and reveal migration defects caused by MeCP2 dysfunction. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 3185-3190.	7.1	136
6	The Chemistry of Boronic Acids in Nanomaterials for Drug Delivery. Accounts of Chemical Research, 2019, 52, 3108-3119.	15.6	135
7	Inflammation Responsive Logic Gate Nanoparticles for the Delivery of Proteins. Bioconjugate Chemistry, 2011, 22, 1416-1421.	3.6	120
8	Single UV or Near IR Triggering Event Leads to Polymer Degradation into Small Molecules. ACS Macro Letters, 2012, 1, 922-926.	4.8	120
9	Low Power, Biologically Benign NIR Light Triggers Polymer Disassembly. Macromolecules, 2011, 44, 8590-8597.	4.8	117
10	Exploiting Oxidative Microenvironments in the Body as Triggers for Drug Delivery Systems. Antioxidants and Redox Signaling, 2014, 21, 730-754.	5.4	113
11	Photocontrolled release using one-photon absorption of visible or NIR light. Journal of Controlled Release, 2015, 219, 18-30.	9.9	112
12	Multiresponse Strategies To Modulate Burst Degradation and Release from Nanoparticles. ACS Nano, 2010, 4, 5930-5936.	14.6	110
13	Low Power Upconverted Nearâ€IR Light for Efficient Polymeric Nanoparticle Degradation and Cargo Release. Advanced Materials, 2013, 25, 3733-3738.	21.0	107
14	Light-responsive nanoparticle depot to control release of a small molecule angiogenesis inhibitor in the posterior segment of the eye. Journal of Controlled Release, 2015, 200, 71-77.	9.9	91
15	Near-Infrared-Induced Heating of Confined Water in Polymeric Particles for Efficient Payload Release. ACS Nano, 2014, 8, 4815-4826.	14.6	75
16	Inflammation-Responsive Drug-Conjugated Dextran Nanoparticles Enhance Anti-Inflammatory Drug Efficacy. ACS Applied Materials & Interfaces, 2018, 10, 40378-40387.	8.0	75
17	In vivo visible light-triggered drug release from an implanted depot. Chemical Science, 2015, 6, 335-341.	7.4	63
18	Simultaneous Enhancement of Photoluminescence, MRI Relaxivity, and CT Contrast by Tuning the Interfacial Layer of Lanthanide Heteroepitaxial Nanoparticles. Nano Letters, 2017, 17, 4873-4880.	9.1	61

#	Article	IF	Citations
19	Review of the progress toward achieving heat confinementâ€"the holy grail of photothermal therapy. Journal of Biomedical Optics, 2017, 22, 080901.	2.6	59
20	Potential Bone Replacement Materials Prepared by Two Methods. Materials Research Society Symposia Proceedings, 2012, 1418, 177.	0.1	57
21	Intramolecular Cyclization for Stimuli-Controlled Depolymerization of Polycaprolactone Particles Leading to Disassembly and Payload Release. ACS Macro Letters, 2013, 2, 432-435.	4.8	50
22	Nanogels as imaging agents for modalities spanning the electromagnetic spectrum. Materials Horizons, 2016, 3, 21-40.	12.2	49
23	Tunable Protein Release from Acetalated Dextran Microparticles: A Platform for Delivery of Protein Therapeutics to the Heart Post-MI. Biomacromolecules, 2013, 14, 3927-3935.	5.4	48
24	Light-Triggered Intramolecular Cyclization in Poly(lactic-co-glycolic acid)-Based Polymers for Controlled Degradation. Macromolecules, 2015, 48, 3166-3172.	4.8	48
25	Compact Micellization: A Strategy for Ultrahigh T₁ Magnetic Resonance Contrast with Gadolinium-Based Nanocrystals. ACS Nano, 2016, 10, 8299-8307.	14.6	46
26	Leveraging Spectral Matching between Photosensitizers and Upconversion Nanoparticles for 808 nm-Activated Photodynamic Therapy. Chemistry of Materials, 2018, 30, 3991-4000.	6.7	46
27	Metal chelating crosslinkers form nanogels with high chelation stability. Journal of Materials Chemistry B, 2013, 1, 6359.	5.8	45
28	Recent progress of redox-responsive polymeric nanomaterials for controlled release. Journal of Materials Chemistry B, 2021, 9, 2179-2188.	5.8	45
29	Density Gradient Multilayer Polymerization for Creating Complex Tissue. Advanced Materials, 2012, 24, 1466-1470.	21.0	43
30	Nanogels from Metal-Chelating Crosslinkers as Versatile Platforms Applied to Copper-64 PET Imaging of Tumors and Metastases. Theranostics, 2015, 5, 277-288.	10.0	42
31	Short Soluble Coumarin Crosslinkers for Light-Controlled Release of Cells and Proteins from Hydrogels. Biomacromolecules, 2015, 16, 3286-3296.	5.4	39
32	Efficient red light photo-uncaging of active molecules in water upon assembly into nanoparticles. Chemical Science, 2016, 7, 2392-2398.	7.4	36
33	Haptotaxis is Cell Type Specific and Limited by Substrate Adhesiveness. Cellular and Molecular Bioengineering, 2015, 8, 530-542.	2.1	31
34	Intramyocardial injection of hydrogel with high interstitial spread does not impact action potential propagation. Acta Biomaterialia, 2015, 26, 13-22.	8.3	28
35	Distinct ON/OFF fluorescence signals from dual-responsive activatable nanoprobes allows detection of inflammation with improved contrast. Biomaterials, 2017, 133, 119-131.	11.4	28
36	Intramolecular cyclization assistance for fast degradation of ornithineâ€based poly(ester amide)s. Journal of Polymer Science Part A, 2013, 51, 3783-3790.	2.3	26

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37	Degradable Acetalated Dextran Microparticles for Tunable Release of an Engineered Hepatocyte Growth Factor Fragment. ACS Biomaterials Science and Engineering, 2016, 2, 197-204.	5.2	26
38	Highest Efficiency Two-Photon Degradable Copolymer for Remote Controlled Release. ACS Macro Letters, 2013, 2, 683-687.	4.8	24
39	An Extracellular MRI Polymeric Contrast Agent That Degrades at Physiological pH. Molecular Pharmaceutics, 2012, 9, 1911-1918.	4.6	21
40	Light-triggered chemical amplification to accelerate degradation and release from polymeric particles. Chemical Communications, 2015, 51, 16980-16983.	4.1	21
41	High Nd(III)-Sensitizer Concentrations for 800 nm Wavelength Excitation Using Isotropic Coreâ€“Shell Upconversion Nanoparticles. Chemistry of Materials, 2019, 31, 3103-3110.	6.7	21
42	Chemical amplification accelerates reactive oxygen species triggered polymeric degradation. Biomaterials Science, 2018, 6, 107-114.	5.4	18
43	Diseaseâ€Triggered Drug Release Effectively Prevents Acute Inflammatory Flareâ€Ups, Achieving Reduced Dosing. Small, 2018, 14, e1800703.	10.0	18
44	A Bioelectronic Platform Modulates pH in Biologically Relevant Conditions. Advanced Science, 2019, 6, 1800935.	11.2	17
45	Gold Nanoparticle-assisted Selective Photothermolysis of Adipose Tissue (NanoLipo). Plastic and Reconstructive Surgery - Global Open, 2014, 2, e283.	0.6	16
46	Enhanced UV upconversion emission using plasmonic nanocavities. Optics Express, 2016, 24, 13999.	3.4	16
47	Delivery of Cargo with a Bioelectronic Trigger. ACS Applied Materials & Interfaces, 2018, 10, 21782-21787.	8.0	13
48	Hydrogen Sulfide-Responsive Self-Assembled Nanogel. ACS Applied Polymer Materials, 2020, 2, 3756-3760.	4.4	12
49	Biorthogonal click chemistry on poly(lactic-co-glycolic acid)-polymeric particles. Biomaterials Science, 2017, 5, 211-215.	5.4	11
50	Highly responsive and rapid hydrogen peroxide-triggered degradation of polycaprolactone nanoparticles. Biomaterials Science, 2020, 8, 2394-2397.	5.4	10
51	Iron Oxide Nanoparticle-Based Magnetic Resonance Method to Monitor Release Kinetics from Polymeric Particles with High Resolution. Analytical Chemistry, 2012, 84, 7779-7784.	6.5	7
52	Density Gradient Multilayered Polymerization (DGMP): A Novel Technique for Creating Multi-compartment, Customizable Scaffolds for Tissue Engineering. Journal of Visualized Experiments, 2013, , .	0.3	5
53	A Single-Blind Study Evaluating the Efficacy of Gold Nanoparticle Photothermal-Assisted Liposuction in an Ex Vivo Human Tissue Model. Aesthetic Surgery Journal, 2018, 38, 1213-1224.	1.6	5
54	Engineering upconversion emission spectra using plasmonic nanocavities. Optics Letters, 2014, 39, 3710.	3.3	4

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55	Bioelectronic Modulators: A Bioelectronic Platform Modulates pH in Biologically Relevant Conditions (Adv. Sci. 7/2019). Advanced Science, 2019, 6, 1970041.	11.2	2