

Use of boron cluster-containing redox nanoparticles with neutron capture therapy to achieve high therapeutic efficiency

Biomaterials

104, 201-212

DOI: [10.1016/j.biomaterials.2016.06.046](https://doi.org/10.1016/j.biomaterials.2016.06.046)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Intracellular delivery and passive tumor targeting of a self-assembled nanogel containing carborane clusters for boron neutron capture therapy. <i>Biochemical and Biophysical Research Communications</i> , 2017, 483, 147-152.	1.0	24
2	Development of Gd ₃ N@C ₈₀ encapsulated redox nanoparticles for high-performance magnetic resonance imaging. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2017, 28, 1036-1050.	1.9	8
3	Application of surface enhanced Raman spectroscopy as a diagnostic system for hypersialylated metastatic cancers. <i>Biomaterials</i> , 2017, 134, 143-153.	5.7	24
4	Engineering Novel Targeted Boron-10 Enriched Theranostic Nanomedicine to Combat against Murine Brain Tumors via MR Imaging-Guided Boron Neutron Capture Therapy. <i>Advanced Materials</i> , 2017, 29, 1700850.	11.1	89
5	Nitroxide radical-containing nanoparticles as potential candidates for overcoming drug resistance in epidermoid cancers. <i>Polymer</i> , 2017, 116, 429-438.	1.8	22
6	TEMPO-Conjugated Gold Nanoparticles for Reactive Oxygen Species Scavenging and Regulation of Stem Cell Differentiation. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 35683-35692.	4.0	66
7	Merging Icosahedral Boron Clusters and Magnetic Nanoparticles: Aiming toward Multifunctional Nanohybrid Materials. <i>Inorganic Chemistry</i> , 2018, 57, 462-470.	1.9	24
8	Design of drug delivery systems for physical energy-induced chemical surgery. <i>Biomaterials</i> , 2018, 178, 583-596.	5.7	15
9	Highly Condensed Boron Cage Cluster Anions in 2D Carrier and Its Enhanced Antitumor Efficiency for Boron Neutron Capture Therapy. <i>Advanced Functional Materials</i> , 2018, 28, 1704470.	7.8	30
11	Redox nanoparticles: synthesis, properties and perspectives of use for treatment of neurodegenerative diseases. <i>Journal of Nanobiotechnology</i> , 2018, 16, 87.	4.2	41
12	Properties and Applications of Metal (M) dodecahydro-closo-dodecaborates (Mn=1,2B ₁₂ H ₁₂) and Their Implications for Reversible Hydrogen Storage in the Borohydrides. <i>Inorganics</i> , 2018, 6, 106.	1.2	14
13	Nitroxide radical-containing nanoparticles attenuate tumorigenic potential of triple negative breast cancer. <i>Biomaterials</i> , 2018, 178, 48-62.	5.7	43
14	Boron delivery agents for neutron capture therapy of cancer. <i>Cancer Communications</i> , 2018, 38, 1-15.	3.7	266
15	Polycomplexes of Hyaluronic Acid and Borates in a Solid State and Solution: Synthesis, Characterization and Perspectives of Application in Boron Neutron Capture Therapy. <i>Polymers</i> , 2018, 10, 181.	2.0	14
17	Asialoglycoprotein receptor targeted micelles containing carborane clusters for effective boron neutron capture therapy of hepatocellular carcinoma. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 182, 110397.	2.5	19
18	Remarkable Boron Delivery Of iRGD-Modified Polymeric Nanoparticles For Boron Neutron Capture Therapy. <i>International Journal of Nanomedicine</i> , 2019, Volume 14, 8161-8177.	3.3	18
19	Combining magnetic nanoparticles and icosahedral boron clusters in biocompatible inorganic nanohybrids for cancer therapy. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2019, 20, 101986.	1.7	27
20	Enhancing Boron Uptake in Brain Glioma by a Boron-Polymer/Microbubble Complex with Focused Ultrasound. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 11144-11156.	4.0	39

#	ARTICLE	IF	CITATIONS
21	Study of ATP borate ester effects on cell sensitization to radiation emitted by a nuclear reactor. Nuclear Science and Techniques/Hewuli, 2020, 31, 1.	1.3	3
22	Boron agents for neutron capture therapy. Coordination Chemistry Reviews, 2020, 405, 213139.	9.5	125
23	Application of Nitroimidazole- <i>Carbobane-Modified Phenylalanine Derivatives as Dual-Target Boron Carriers in Boron Neutron Capture Therapy.</i> Molecular Pharmaceutics, 2020, 17, 202-211.	2.3	18
24	PEGylated liposome encapsulating nido-carborane showed significant tumor suppression in boron neutron capture therapy (BNCT). Biochemical and Biophysical Research Communications, 2020, 522, 669-675.	1.0	32
25	Nanoparticles for targeted cancer radiotherapy. Nano Research, 2020, 13, 2887-2897.	5.8	48
26	Functionalized mesoporous silica nanoparticles for innovative boron-neutron capture therapy of resistant cancers. Nanomedicine: Nanotechnology, Biology, and Medicine, 2020, 27, 102195.	1.7	30
27	The potential role of borophene as a radiosensitizer in boron neutron capture therapy (BNCT) and particle therapy (PT). Biomaterials Science, 2020, 8, 2778-2785.	2.6	22
28	Self-assembling A6K peptide nanotubes as a mercaptoundecahydrododecaborate (BSH) delivery system for boron neutron capture therapy (BNCT). Journal of Controlled Release, 2021, 330, 788-796.	4.8	17
29	Multi-shell nanocomposites based multienzyme mimetics for efficient intracellular antioxidation. Nano Research, 2021, 14, 2644-2653.	5.8	32
30	Nanocząstki o wysokiej zawartości boru jako potencjalne nośniki w terapii borowo-neutronowej. Postepy Higieny I Medycyny Doswiadczalnej, 2021, 75, 122-132.	0.1	2
31	Polymer-conjugated glucosamine complexed with boric acid shows tumor-selective accumulation and simultaneous inhibition of glycolysis. Biomaterials, 2021, 269, 120631.	5.7	21
32	Preparing (Metalla)carboranes for Nanomedicine. ChemMedChem, 2021, 16, 1533-1565.	1.6	21
33	Self-Assembling Antioxidants for Ischemia- <i>Reperfusion Injuries.</i> Antioxidants and Redox Signaling, 2022, 36, 70-80.	2.5	10
34	Carborane based mesoporous nanoparticles as a potential agent for BNCT. Materials Chemistry Frontiers, 2021, 5, 2771-2776.	3.2	9
35	Biocompatible Iron- <i>Boron Nanoparticles Designed for Neutron Capture Therapy Guided by Magnetic Resonance Imaging.</i> Advanced Healthcare Materials, 2021, 10, e2001632.	3.9	24
37	Dual- <i>Depletion of Intratumoral Lactate and ATP with Radicals Generation for Cascade Metabolic-Chemodynamic Therapy.</i> Advanced Science, 2021, 8, e2102595.	5.6	48
38	Boron delivery agents for boron neutron capture therapy. Chinese Science Bulletin, 2022, 67, 1517-1531.	0.4	3
39	Nanoconfined anti-oxidizing RAFT nitroxide radical polymer for reduction of low-density lipoprotein oxidation and foam cell formation. Nanoscale Advances, 2022, 4, 742-753.	2.2	5

#	ARTICLE	IF	CITATIONS
40	Boron Phenyl Alanine Targeted Chitosan-PNIPAAm Core-Shell Thermo-Responsive Nanoparticles; Boosting Drug Delivery to Glioblastoma in BNCT. <i>Drug Development and Industrial Pharmacy</i> , 2022, , 1-37.	0.9	3
41	Experimental synthesis, functionalized modifications and potential applications of monoelemental zero-dimensional boron nanomaterials. <i>Journal of Materials Chemistry A</i> , 2022, 10, 5111-5146.	5.2	15
42	Recent Advances in Nanozymes: From Matters to Bioapplications. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	143
43	Boron-containing compounds on neurons: Actions and potential applications for treating neurodegenerative diseases. <i>Journal of Inorganic Biochemistry</i> , 2023, 238, 112027.	1.5	8
44	Supramolecular chemistry of anionic boron clusters and its applications in biology. <i>Coordination Chemistry Reviews</i> , 2023, 477, 214940.	9.5	16
45	Investigation of electrical conductivity and radical scavenging activity of boron phosphate filled polypyrrole nanocomposites. <i>Polymer-Plastics Technology and Materials</i> , 2023, 62, 188-196.	0.6	0
46	Metal-Doped Boron Quantum Dots for Versatile Detection of Lactate and Fluorescence Bioimaging. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 56986-56997.	4.0	7
47	Boron Vehiculating Nanosystems for Neutron Capture Therapy in Cancer Treatment. <i>Cells</i> , 2022, 11, 4029.	1.8	14
48	A Multifunctional Integrated Metal-Free MRI Agent for Early Diagnosis of Oxidative Stress in a Mouse Model of Diabetic Cardiomyopathy. <i>Advanced Science</i> , 2023, 10, .	5.6	4
49	Organosilica nanoparticles containing sodium borocaptate (BSH) provide a new perspectives for boron neutron capture therapy (BNCT): efficient cellular uptake and enhanced BNCT efficacy. <i>Nanoscale Advances</i> , 0, , .	2.2	4