Chun-Hui Gong

List of Publications by Year
in descending order

40 papers	296 citations	1040056 9 h-index	1058476 14 g-index
40 all docs	40 docs citations	40 times ranked	213 citing authors

#	Article	IF	Citations
1	Core-shell ZnO@Cu2O encapsulated Ag NPs nanocomposites for photooxidation-adsorption of iodide anions under visible light. Separation and Purification Technology, 2021, 262, 118328.	7.9	28
2	Cu-Zn bimetal ZIFs derived nanowhisker zero-valent copper decorated ZnO nanocomposites induced oxygen activation for high-efficiency iodide elimination. Journal of Hazardous Materials, 2021, 416, 126097.	12.4	25
3	GEANT4 calculations of neutron dose in radiation protection using a homogeneous phantom and a Chinese hybrid male phantom. Radiation Protection Dosimetry, 2016, 168, 433-440.	0.8	19
4	Silver-decorated ZIF-8 derived ZnO concave nanocubes for efficient photooxidation-adsorption of iodide anions: An in-depth experimental and theoretical investigation. Journal of Solid State Chemistry, 2021, 297, 122039.	2.9	18
5	Minimum detectable activity for NaI(Tl) airborne Î3-ray spectrometry based on Monte Carlo simulation. Science China Technological Sciences, 2014, 57, 1840-1845.	4.0	14
6	Armor-like passivated CsPbBr₃ quantum dots: boosted stability with hand-in-hand ligands and enhanced performance of nuclear batteries. Journal of Materials Chemistry A, 2021, 9, 8772-8781.	10.3	13
7	Optimization of the Compton camera for measuring prompt gamma rays in boron neutron capture therapy. Applied Radiation and Isotopes, 2017, 124, 62-67.	1.5	12
8	Strategies for radioiodine capture by metal organic frameworks and their derived materials. Microporous and Mesoporous Materials, 2022, 341, 112041.	4.4	12
9	A Monte Carlo-based radiation safety assessment for astronauts in an environment with confined magnetic field shielding. Journal of Radiological Protection, 2015, 35, 777-788.	1.1	11
10	Determination of the relationship between dose deposition and Cerenkov photons in homogeneous and heterogeneous phantoms during radiotherapy using Monte Carlo method. Journal of Radioanalytical and Nuclear Chemistry, 2016, 308, 187-193.	1.5	9
11	Influence of Neutron Sources and 10B Concentration on Boron Neutron Capture Therapy for Shallow and Deeper Non-small Cell Lung Cancer. Health Physics, 2017, 112, 258-265.	0.5	9
12	Ultrahigh capture of radioiodine with zinc oxide-decorated, nitrogen-doped hierarchical nanoporous carbon derived from sonicated ZIF-8-precursor. Journal of Materials Science, 2021, 56, 9106-9121.	3.7	9
13	Hierarchically mesoporous mixed copper oxide/calcined layered double hydroxides composites for iodide high-efficiency elimination. Journal of Solid State Chemistry, 2021, 303, 122509.	2.9	9
14	Dosimetric impact of respiratory motion during boron neutron capture therapy for lung cancer. Radiation Physics and Chemistry, 2020, 168, 108527.	2.8	8
15	Sonicated zeolitic imidazolate Framework-8 derived nanoporous carbon for efficient capture and reversible storage of radioiodine. Journal of Solid State Chemistry, 2021, 299, 122218.	2.9	8
16	Monte Carlo study of the beam shaping assembly optimization for providing high epithermal neutron flux for BNCT based on Dâ€“T neutron generator. Journal of Radioanalytical and Nuclear Chemistry, 2016, 310, 1289-1298.	1.5	7
17	Investigation of the dose perturbation effect for therapeutic beams with the presence of a 1.5 T transverse magnetic field in magnetic resonance imaging-guided radiotherapy. Journal of Cancer Research and Therapeutics, 2018, 14, 184-195.	0.9	7
18	Core-shell Bi2S3 nanorods loaded ZIF-8 nanocomposites for efficient and reversible capture of radioactive iodine. Microporous and Mesoporous Materials, 2022, 339, 111983.	4.4	7

#	Article	IF	Citations
19	Analysis on the emission and potential application of Cherenkov radiation in boron neutron capture therapy: A Monte Carlo simulation study. Applied Radiation and Isotopes, 2018, 137, 219-224.	1.5	6
20	Assessment of long-term risks of secondary cancer in paediatric patients with brain tumours after boron neutron capture therapy. Journal of Radiological Protection, 2019, 39, 838-853.	1.1	6
21	Modulation of lateral positions of Bragg peaks via magnetic fields inside cancer patients: Toward magnetic field modulated proton therapy. Medical Physics, 2017, 44, 5325-5338.	3.0	5
22	Design of a BNCT irradiation room based on proton accelerator and beryllium target. Applied Radiation and Isotopes, 2020, 165, 109314.	1.5	5
23	Analysis of influencing factors on the method for determining boron concentration and dose through dual prompt gamma detection. Nuclear Science and Techniques/Hewuli, 2021, 32, 1.	3.4	5
24	ikEffects of activation parameters on Zeolitic imidazolate framework JUC-160-derived, nitrogen-doped hierarchical nanoporous carbon and its volatile iodine capture properties. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, , 129478.	4.7	5
25	Calculations ofSvalues and effective dose for the radioiodine carrier and surrounding individuals based on Chinese hybrid reference phantoms using the Monte Carlo technique. Journal of Radiological Protection, 2015, 35, 707-717.	1.1	4
26	Theoretical calculation and measurement accuracy of Cerenkov optic-fiber dosimeter under electron and photon radiation therapies. Radiation Measurements, 2018, 110, 1-6.	1.4	4
27	Investigation of in vivo beam range verification in carbon ion therapy using the Doppler Shift Effect of prompt gamma: A Monte Carlo simulation study. Radiation Physics and Chemistry, 2019, 162, 72-81.	2.8	4
28	Quantum dots enhanced Cerenkov luminescence imaging. Nuclear Science and Techniques/Hewuli, 2019, 30, 1.	3.4	4
29	Novel method exploration of monitoring neutron beam using Cherenkov photons in BNCT. Radiation Physics and Chemistry, 2019, 156, 222-230.	2.8	4
30	Evaluation of using the Doppler shift effect of prompt gamma for measuring the carbon ion range in vivo for heterogeneous phantoms. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 959, 163439.	1.6	4
31	Analysis of the relationship between neutron dose and Cerenkov photons under neutron irradiation through Monte Carlo method. Radiation Measurements, 2016, 93, 35-40.	1.4	3
32	A Monte Carlo study of pinhole collimated Cerenkov luminescence imaging integrated with radionuclide treatment. Australasian Physical and Engineering Sciences in Medicine, 2019, 42, 481-487.	1.3	3
33	Boron concentration prediction from Compton camera image for boron neutron capture therapy based on generative adversarial network. Applied Radiation and Isotopes, 2022, 186, 110302.	1.5	3
34	Measurement of dose in radionuclide therapy by using Cerenkov radiation. Australasian Physical and Engineering Sciences in Medicine, 2017, 40, 695-705.	1.3	2
35	Research on a wide-range biodosimeter based on the irradiation damage effect of proteins for Î³ radiation. Radiation Physics and Chemistry, 2020, 166, 108477.	2.8	2
36	Preliminary Monte Carlo simulations of a SPECT system based on CdZnTe detectors for real time BNCT dose monitoring. , 2018, , .		1

#	Article	IF	Citations
37	Strategies for accurate response assessment of radiochromic film using flatbed scanner for beam quality assurance. Nuclear Science and Techniques/Hewuli, 2019, 30, 1.	3.4	1
38	Abstract ID: 126 Evaluation of the clinical translation of an optimized Compton camera during Boron Neutron Capture Therapy for melanoma patients. Physica Medica, 2017, 42, 27.	0.7	0
39	Monte Carlo study of dose distribution improvement by skin-shielding layer design in boron neutron capture therapy for non-small-cell lung cancer. Radioprotection, 2018, 53, 207-217.	1.0	0
40	In situ modification of JUC-160-derived carbon with Cu/ZnO nanoparticles for efficient capture and reversible storage of radioiodine. Surfaces and Interfaces, 2022, 32, 102160.	3.0	0