Rui Shi

List of Publications by Year
in descending order

		1307594	1372567
22 papers	**109** citations	**7** h-index	**10** g-index
22 all docs	**22** docs citations	**22** times ranked	**91** citing authors

#	Article	IF	Citations
1	Unfolding analysis of LaBr3:Ce gamma spectrum with a detector response matrix constructing algorithm based on energy resolution calibration. Nuclear Science and Techniques/Hewuli, 2018, 29, 1.	3.4	26
2	A de-noising algorithm to improve SNR of segmented gamma scanner for spectrum analysis. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 818, 68-75.	1.6	9
3	Determination of Gamma point source efficiency based on a back-propagation neural network. Nuclear Science and Techniques/Hewuli, 2018, 29, 1.	3.4	9
4	A statistical approach to fit Gaussian part of full-energy peaks from Si(PIN) and SDD X-ray spectrometers. Science China Technological Sciences, 2014, 57, 19-24.	4.0	8
5	Step-approximation SNIP background-elimination algorithm for HPGe gamma spectra. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 885, 60-66.	1.6	8
6	Coordination driven layer‐by‐layer deposition technology used for fabrication of flame retardant polyamide 66 fabric. Polymers for Advanced Technologies, 2021, 32, 3232-3241.	3.2	8
7	An improved OSEM iterative reconstruction algorithm for transmission tomographic gamma scanning. Applied Radiation and Isotopes, 2018, 142, 51-55.	1.5	7
8	Fast adaptive particle spectrum fitting algorithm based on moment-estimated initial parameters. Applied Radiation and Isotopes, 2017, 129, 1-5.	1.5	6
9	A peak shape model with high-energy tailing for high-resolution alpha-particle spectra. European Physical Journal A, 2019, 55, 1.	2.5	6
10	239Pu alpha spectrum analysis based on PIPS detector response function and variations with vacuum and distance. Nuclear Science and Techniques/Hewuli, 2017, 28, 1.	3.4	4
11	Unfolding neutron spectra from water-pumping-injection multilayered concentric sphere neutron spectrometer using self-adaptive differential evolution algorithm. Nuclear Science and Techniques/Hewuli, 2021, 32, 1.	3.4	4
12	Applications of non-negative iterative deconvolution method in the analysis of alpha-particle spectra. European Physical Journal Plus, 2020, 135, 1.	2.6	3
13	Image Reconstruction Based on Total Variation Minimization for Radioactive Wastes Tomographic Gamma Scanning From Sparse Projections. IEEE Access, 2021, 9, 87453-87461.	4.2	3
14	Reconstruction of tomographic gamma scanning transmission image from sparse projections based on convolutional neural networks. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1039, 167110.	1.6	3
15	A collimator design method for the tomographic gamma scanning system with a fan-shaped NaI(Tl) detector array. Applied Radiation and Isotopes, 2022, 182, 110123.	1.5	2
16	Monte Carlo Simulation and Collimator optimization for Tomographic Gamma Scanning. , 2017, , .		1
17	Gamma-Ray Source Positioning Using Array NaI(Tl) Detectors in the Radiation Portal Monitors. Journal of the Korean Physical Society, 2019, 75, 196-201.	0.7	1
18	Research on Fitness Function of Two Evolution Algorithms Used for Neutron Spectrum Unfolding. Journal of the Korean Physical Society, 2021, 78, 109-115.	0.7	1

#	Article	IF	Citations
19	Towards a hybrid optimization model for elemental content analysis in EDXRF. , 2012, , .		0
20	Detector response function of a HPGe detector to photon energies between 200 keV and 1.5 MeV for Gamma-ray nondestructive assay instrument. , 2017, , .		0
21	Advanced Direct Digital Synthesis Generator Design for Transuranic Nuclide Alpha Spectrometry Pulses. Mathematical Problems in Engineering, 2021, 2021, 1-9.	1.1	0
22	High Spatial Resolution Tomographic Gamma Scanning Reconstruction with Improved MLEM Iterative Algorithm Based on Split Bregman Total Variation Regularization. IEEE Transactions on Nuclear Science, 2021, , 1-1.	2.0	0