Ulli KÃ¶ster

List of Publications by Year
in descending order

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Version: 2024-02-01

75	2,055	257450	243625
papers	citations	24	44
		h-index	g-index

76	76	76	1644
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	New Type of Asymmetric Fission in Proton-Rich Nuclei. Physical Review Letters, 2010, 105, 252502.	7.8	197
2	A Unique Matched Quadruplet of Terbium Radioisotopes for PET and SPECT and for Î±- and Î²^{â^'}-Radionuclide Therapy: An In Vivo Proof-of-Concept Study with a New Receptor-Targeted Folate Derivative. Journal of Nuclear Medicine, 2012, 53, 1951-1959.	5.0	189
3	Promising Prospects for ⁴⁴Sc-/⁴⁷Sc-Based Theragnostics: Application of ⁴⁷Sc for Radionuclide Tumor Therapy in Mice. Journal of Nuclear Medicine, 2014, 55, 1658-1664.	5.0	163
4	The low-energy Î²â^' and electron emitter 161Tb as an alternative to 177Lu for targeted radionuclide therapy. Nuclear Medicine and Biology, 2011, 38, 917-924.	0.6	120
5	Terbium-161 for PSMA-targeted radionuclide therapy of prostate cancer. European Journal of Nuclear Medicine and Molecular Imaging, 2019, 46, 1919-1930.	6.4	109
6	Resonant laser ionization of radioactive atoms. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2003, 58, 1047-1068.	2.9	91
7	Clinical evaluation of the radiolanthanide terbium-152: first-in-human PET/CT with ¹⁵²Tb-DOTATOC. Dalton Transactions, 2017, 46, 14638-14646.	3.3	61
8	47Sc as useful Î²â€“-emitter for the radiotheragnostic paradigm: a comparative study of feasible production routes. EJNMMI Radiopharmacy and Chemistry, 2017, 2, 5.	3.9	60
9	Production and characterization of no-carrier-added 161Tb as an alternative to the clinically-applied 177Lu for radionuclide therapy. EJNMMI Radiopharmacy and Chemistry, 2019, 4, 12.	3.9	56
10	Anti-L1CAM radioimmunotherapy is more effective with the radiolanthanide terbium-161 compared to lutetium-177 in an ovarian cancer model. European Journal of Nuclear Medicine and Molecular Imaging, 2014, 41, 1907-1915.	6.4	51
11	ISOLDE target and ion source chemistry. Radiochimica Acta, 2001, 89, .	1.2	50
12	Resonance ionization laser ion sources. Nuclear Physics A, 2002, 701, 441-451.	1.5	46
13	Isotopic yield measurement in the heavy mass region for<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>239</mml:mn></mml:msup></mml:math>Pu thermal neutron induced fission. Physical Review C, 2011, 84, .	2.9	44
14	Contribution of Auger/conversion electrons to renal side effects after radionuclide therapy: preclinical comparison of 161Tb-folate and 177Lu-folate. EJNMMI Research, 2016, 6, 13.	2.5	43
15	First-in-Humans Application of ¹⁶¹Tb: A Feasibility Study Using ¹⁶¹Tb-DOTATOC. Journal of Nuclear Medicine, 2021, 62, 1391-1397.	5.0	42
16	Preclinical in vivo application of 152Tb-DOTANOC: a radiolanthanide for PET imaging. EJNMMI Research, 2016, 6, 35.	2.5	40
17	EXILLâ€”a high-efficiency, high-resolution setup for Î³-spectroscopy at an intense cold neutron beam facility. Journal of Instrumentation, 2017, 12, P11003-P11003.	1.2	39
18	Preclinical investigations and first-in-human application of 152Tb-PSMA-617 for PET/CT imaging of prostate cancer. EJNMMI Research, 2019, 9, 68.	2.5	39

#	Article	IF	Citations
19	Oxide fiber targets at ISOLDE. Nuclear Instruments & Methods in Physics Research B, 2003, 204, 303-313.	1.4	34
20	Combination of terbium-161 with somatostatin receptor antagonistsâ€”a potential paradigm shift for the treatment of neuroendocrine neoplasms. European Journal of Nuclear Medicine and Molecular Imaging, 2022, 49, 1113-1126.	6.4	32
21	Low-spin structure of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>B</mml:mi><mml:mo>(</mml:mo><mml:mi>E</mml:mi><mml:mo>2</mml:mo><mml:mo>;</mml:mo></mml:mrow></mml:math> values in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">Se</mml:mi><mml:mprescripts /><mml:none /><mml:mn>86</mml:mn></mml:mmultiscripts></mml:math>	2.9	29
22	The mutable nature of particle-core excitations with spin in the one-valence-proton nucleus 133 Sb. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 760, 273-278.	4.1	27
23	Aza-BODIPY: A New Vector for Enhanced Theranostic Boron Neutron Capture Therapy Applications. Cells, 2020, 9, 1953.	4.1	27
24	Therapeutic Potential of 47Sc in Comparison to 177Lu and 90Y: Preclinical Investigations. Pharmaceutics, 2019, 11, 424.	4.5	24
25	Shape Coexistence at Zero Spin in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Ni</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mn>64</mml:mn></mml:mmultiscripts></mml:mrow></mml:math>	7.8	24
26	Low-spin structure of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">Se</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>86</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>: Confirmation of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î³</mml:mi></mml:math>collectivity	2.9	22
27	Experience with in-pile fission targets at LOHENGRIN. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 613, 363-370.	1.6	21
28	FIPPS (FIssion Product Prompt Î³-ray Spectrometer) and its first experimental campaign. EPJ Web of Conferences, 2018, 193, 04009.	0.3	20
29	Establishment of a clinical SPECT/CT protocol for imaging of 161Tb. EJNMMI Physics, 2020, 7, 45.	2.7	20
30	Search for shape-coexisting <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mn>0</mml:mn><mml:mo>+</mml:mo></mml:msup></mml:math> states in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Ni</mml:mi><mml:mprescripts /><mml:none /><mml:mn>66</mml:mn></mml:mmultiscripts></mml:math> from lifetime measurements. Physical Review C, 2017, 95, .	2.9	19
31	Internal radiation dosimetry of a 152Tb-labeled antibody in tumor-bearing mice. EJNMMI Research, 2019, 9, 53.	2.5	17
32	Simultaneous Visualization of 161Tb- and 177Lu-Labeled Somatostatin Analogues Using Dual-Isotope SPECT Imaging. Pharmaceutics, 2021, 13, 536.	4.5	17
33	Shape coexistence in the odd-odd nucleus <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">Y</mml:mi><mml:mprescripts /><mml:none /><mml:mn>98</mml:mn></mml:mmultiscripts></mml:math> : The role of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>g</mml:mi><mml:mrow><mml:mn>9</mml:mn>	2.9	16
34	Identification of excited states and collectivity in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi mathvariant="normal">Se</mml:mi><mml:mprescripts /><mml:none /><mml:mn>88</mml:mn></mml:mmultiscripts></mml:mrow></mml:math>. Physical Review C, 2017, 95, .	2.9	15
35	Fission fragment yield distribution in the heavy-mass region from the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Pu</mml:mi><mml:mprescripts /><mml:none /><mml:mn>239</mml:mn></mml:mmultiscripts></mml:math> (<mml:math) Tj ETQq1 1 0.784314 gBT /Overlock 10	2.8	14
36	Low-spin structure of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Br</mml:mi><mml:mn>51</mml:mn><mml:none /><mml:mprescripts /><mml:mn>35</mml:mn><mml:mn>86</mml:mn></mml:mmultiscripts></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Kr</mml:mi><mml:mn>50</mml:mn><mml:none /><mml:mprescripts /><mml:mn>36</mml:mn><mml:mn>86</mml:mn></mml:mmultiscripts></mml:math>	2.9	13

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37	Lifetime measurements and shape coexistence in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Sr</mml:mi><mml:mprescripts /><mml:none /><mml:mn>97</mml:mn></mml:mmultiscripts></mml:math>. Physical Review C, 2019, 100, .	2.9	13
38	Approaching complete low-spin spectroscopy ofBi210with a cold-neutron capture reaction. Physical Review C, 2016, 93, .	2.9	12
39	Kinetic energy dependence of fission fragment isomeric ratios for spherical nuclei 132 Sn. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 775, 190-195.	4.1	11
40	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mi>Î²</mml:mi><mml:mo>â^'</mml:mo></mml:msup></mml: decay study of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi>Mn</mml:mi><mml:mprescripts /><mml:none /><mml:mn>66</mml:mn></mml:mmultiscripts><mml:mtext>â^'</mml:mtext><mml:mmultiscripts><mml:mi>Fe</mml:mi><mml:mpres	2.9	11
41	Porous Silicon as a Platform for Radiation Theranostics Together with a Novel RIB-Based Radiolanthanoid. Contrast Media and Molecular Imaging, 2019, 2019, 1-9.	0.8	11
42	Electromagnetic isotope separation of gadolinium isotopes for the production of 152,155Tb for radiopharmaceutical applications. Nuclear Instruments & Methods in Physics Research B, 2020, 463, 111-114.	1.4	11
43	Production of Mass-Separated Erbium-169 Towards the First Preclinical in vitro Investigations. Frontiers in Medicine, 2021, 8, 643175.	2.6	11
44	Multipolarity of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msup><mml:mn>2</mml:mn><mml:mo>â^'</mml:mo></mml:mm ground-state transition in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Bi</mml:mi><mml:mprescripts /><mml:none /><mml:mn>210</mml:mn></mml:mmultiscripts></mml:math>via multivariable angular correlation analysis. Physical Review C, 2016, 94, .	2.9	10
45	Structure of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Kr</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>90</mml:mn><mml:mo>,</mml:mo><mml:mn>91</mml:mn></mml:mrow></mml:mmultiscripts></mml:m nuclei: Solving the puzzle of their population in fission. Physical Review C, 2017, 95, .	2.9	10
46	Flexibility of the CueR Metal Site Probed by Instantaneous Change of Element and Oxidation State from Ag^I to Cd^{II}. Chemistry - A European Journal, 2020, 26, 7451-7457.	3.3	10
47	Preparation and in vivo evaluation of red blood cell membrane coated porous silicon nanoparticles implanted with 155Tb. Nuclear Medicine and Biology, 2020, 84-85, 102-110.	0.6	9
48	Low-spin excitations in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Zr</mml:mi><mml:mprescripts /><mml:none /><mml:mn>97</mml:mn></mml:mmultiscripts></mml:math>. Physical Review C, 2018, 98, .	2.9	7
49	Decay properties of the ${3}_{1}^{-}$ level in 96Mo. Journal of Physics G: Nuclear and Particle Physics, 2019, 46, 075101.	3.6	7
50	Structure of even-even Sr isotopes with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>50</mml:mn><mml:mo>â‰¤</mml:mo><mml:mi>N</mml: neutrons. Physical Review C, 2021, 104, .	2.9	7
51	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Rb</mml:mi><mml:mprescripts /><mml:none /><mml:mn>92</mml:mn></mml:mmultiscripts></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">Y</mml:mi><mml:mprescripts /><mml:none /><mml:mn>96</mml:mn></mml:mmultiscripts></mml:math> yields for thermal-neutron-induced fission.	2.9	6
52	Contrasting properties of particle-particle and hole-hole excitations in 206Tl and 210Bi nuclei. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 802, 135222.	4.1	6
53	KATRIN background due to surface radioimpurities. Astroparticle Physics, 2022, 138, 102686.	4.3	6
54	Theoretical investigation of fission fragment kinetic energy distributions in the symmetric mass region for233U(nth,f). EPJ Web of Conferences, 2017, 146, 04063.	0.3	5

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55	Application of Calorimetric Low-Temperature Detectors for the Investigation of Z-Yield Distributions of Fission Fragments. Journal of Low Temperature Physics, 2018, 193, 1257-1262.	1.4	5
56	Measurement of spallation cross sections for the production of terbium radioisotopes for medical applications from tantalum targets. Nuclear Instruments & Methods in Physics Research B, 2020, 463, 327-329.	1.4	5
57	Neutron radiobiology studies with a pure cold neutron beam. Nuclear Instruments & Methods in Physics Research B, 2020, 462, 24-31.	1.4	5
58	Medium-spin states of the neutron-rich nucleus <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Br</mml:mi><mml:mprescripts /><mml:none /><mml:mn>87</mml:mn></mml:mmultiscripts></mml:math>. Physical Review C, 2021, 103, .	2.9	5
59	Production Cross-Section Measurements for Terbium Radionuclides of Medical Interest Produced in Tantalum Targets Irradiated by 0.3 to 1.7 GeV Protons and Corresponding Thick Target Yield Calculations. Frontiers in Medicine, 2021, 8, 625561.	2.6	5
60	Structure of high-lying levels populated in the 96Y â†'96Zr Î² decay. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 820, 136569.	4.1	5
61	The Low-spin Structure of ^{206}Tl Studied by $gamma $-ray Spectroscopy from Thermal Neutron Capture Reaction. Acta Physica Polonica B, 2018, 49, 561.	0.8	4
62	Strong magnetoelectric coupling at an atomic nonmagnetic electromagnetic probe in bismuth ferrite. Physical Review B, 2022, 105, .	3.2	4
63	Application of Calorimetric Low-Temperature Detectors for the Investigation of Z-Yield Distributions of Fission Fragments. EPJ Web of Conferences, 2018, 193, 04002.	0.3	3
64	Investigation of neutron emission through the local odd-even effect as a function of the fission product kinetic energy. Physical Review C, 2020, 102, .	2.9	3
65	Low-spin particle-core and hole-core excitations in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Ca</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>41</mml:mn><mml:mo>,</mml:mo><mml:mn>47</mml:mn><mml:mo>,</mml:mo><mml:mn>49</mml:mn> isotopes studied by cold-neutron capture reactions. Physical Review C, 2021, 103, .	2.9	3
66	Investigating Core Excitations in the ^{131}Sn One-valence-hole Nucleus. Acta Physica Polonica B, 2019, 50, 285.	0.8	3
67	Tying Up a Loose End: On the Role of the Câ€Terminal CCHHRAG Fragment of the Metalloregulator CueR. ChemBioChem, 2022, 23, .	2.6	3
68	(n,Î³) reactions on rare Ca isotopes: Valence-hole - core excitation couplings in 47Ca. EPJ Web of Conferences, 2018, 193, 05001.	0.3	2
69	Cs-131 as an experimental tool for the investigation and quantification of the radiotoxicity of intracellular Auger decays inÂvitro. International Journal of Radiation Biology, 2020, , 1-14.	1.8	2
70	Isotopic distributions of thermal-neutron-induced fission fragments of near-symmetric fission of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Pu</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>239</mml:mn><mml:mo>,</mml:mo><mml:mn>241</mml:mn></mml:mrow></mml:mmultiscripts></mml:m determined using calorimetric low-temperature detectors. Physical Review C, 2021, 104, .	2.9	2
71	Thermal Neutron Relative Biological Effectiveness Factors for Boron Neutron Capture Therapy from In Vitro Irradiations. Cells, 2020, 9, 2144.	4.1	1
72	Detailed low-spin spectroscopy of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Ni</mml:mi><mml:mprescripts /><mml:none /><mml:mn>65</mml:mn></mml:mmultiscripts></mml:math> via neutron capture reaction. Physical Review C, 2020, 102, .	2.9	1

#	Article	IF	Citations
73	Production cross-section measurements of proton-induced reactions on natural tantalum in the 0.3â€¯GeVâ€“1.7â€¯GeV energy range. Applied Radiation and Isotopes, 2021, 178, 109983.	1.5	0
74	Terbium radionuclides for theranostics. , 2021, , .		0
75	Room-Temperature 181Ta(TiO2): An e-Î³ TDPAC Study. Crystals, 2022, 12, 946.	2.2	0