

# K S Krane

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10863590/publications.pdf>

Version: 2024-02-01

82  
papers

1,050  
citations

516710

16  
h-index

477307

29  
g-index

82  
all docs

82  
docs citations

82  
times ranked

411  
citing authors

#	ARTICLE	IF	CITATIONS
1	Determination of the E2M1 Multipole Mixing Ratios of the Gamma Transitions in Cd110. Physical Review C, 1970, 2, 724-734.	2.9	224
2	Low-Energy Coexisting Band in Gd154. Physical Review Letters, 2003, 91, 102501.	7.8	40
3	Parity-Violating Asymmetry of the 501-keV Gamma Ray Emitted in the Decay of Hf180m. Physical Review C, 1971, 4, 1906-1913.	2.9	36
4	The decays of $^{90}\text{N}$ and $^{152}\text{Sm}$ . Physical Review Letters, 1973, 30, 321-325.	2.9	36
5	Shape coexistence and electric monopole transitions in Pt184. Physical Review Letters, 1992, 68, 3853-3856.	7.8	32
6	Identification of a pairing isomeric band in Sm152. Physical Review C, 2005, 71, .	2.9	32
7	Approach to Magnetic Saturation of Impurities in Iron: Effects on Nuclear Alignment, Perturbed Angular Correlation, Mössbauer, and $^{13}\text{I}$ -Ray Thermometry Measurements. Physical Review Letters, 1973, 30, 321-325.	7.8	30
8	Experimental Test of the Kumar-Baranger Pairing-Plus-Quadrupole Force Model in the A=190 Region Through E2 $\gamma$ M1 Mixing Amplitudes. Physical Review C, 1971, 3, 240-247.	2.9	25
9	E2M1 Multipole Mixing Ratios of $^{13}\text{I}$ Transitions in Even-Even Deformed Nuclei. Physical Review C, 1973, 8, 1494-1499.	2.9	24
10	Nuclear Structure and Parity Mixing in the Decays from Oriented Ta182. Physical Review C, 1972, 5, 1104-1113.	2.9	23
11	Observation of 1.5% Parity-Nonconserving $^{13}\text{I}$ -Ray Asymmetry. Physical Review Letters, 1971, 26, 1579-1581.	7.8	22
12	Nuclear orientation study of the decay of Lu177. Physical Review C, 1974, 10, 825-837.	2.9	22
13	Nuclear orientation of $^{191}\text{Pt}$ in Fe. Journal of Physics G: Nuclear Physics, 1981, 7, 1713-1733.	0.8	21
14	N=90 region: The decay of Eu154 to Gd154. Physical Review C, 2004, 69, .	2.9	21
15	Parity Mixing and the Nuclear Structure of W183, 184 and Nuclear Spin-Lattice Relaxation Following the Decays of Oriented Re183, 184g, 184m. Physical Review C, 1973, 7, 263-275.	2.9	18
16	Neutron capture cross sections of $^{184}\text{W}$ and the decays of $^{185}\text{W}$ and $^{189}\text{Os}$ . Physical Review C, 1973, 7, 1555-1563.	2.9	18
17	Nuclear Orientation Studies of the Decays of W187 and Os185, 191, 193. Physical Review C, 1973, 7, 1555-1563.	2.9	16
18	Parity Mixing and Nuclear Structure in the Decays from Oriented Gd153, 159 and Tb161. Physical Review C, 1971, 4, 1942-1947.	2.9	15

#	ARTICLE	IF	CITATIONS
19	Nuclear Orientation Study of the Decay of Np239 Polarized in ZrFe2: Parity Mixing in Pu239 and Nuclear Structure of Pu239 and Fission Products Xe131,132,133. Physical Review C, 1972, 5, 1671-1678.	2.9	15
20	Nuclear Orientation Study of the Decays of Sb126,127,128. Physical Review C, 1972, 6, 2268-2275.	2.9	15
21	E2M1 multipole mixing ratios of $2^+ \rightarrow 2^+$ gamma transitions in even-even spherical nuclei. Physical Review C, 1974, 10, 1197-1210.	2.9	15
22	The falling raindrop: Variations on a theme of Newton. American Journal of Physics, 1981, 49, 113-117.	0.7	15
23	Galactic Confinement Time of Iron-Group Cosmic Rays Derived from the M54n Chronometer. Physical Review Letters, 1997, 79, 4306-4309.	7.8	15
24	E2M1 Multipole Mixing Ratios of Gamma Transitions in the "Quasispherical" Nucleus Xe132. Physical Review C, 1971, 4, 1419-1431.	2.9	14
25	Parity-Violating and Normal Multipole Mixing Ratios of the 57-keV Gamma Transition of Hf180. Physical Review C, 1972, 5, 1663-1667.	2.9	14
26	Nuclear orientation of Ru97,103,105 and Rh105. Physical Review C, 1976, 14, 1183-1188.	2.9	14
27	Gamma-ray angular distributions in the decays of polarized Lu171,172. Physical Review C, 1976, 13, 1295-1311.	2.9	14
28	Gamma-ray angular distributions and parity tests in the decays of polarized Lu173 and Lu174. Physical Review C, 1975, 12, 1999-2009.	2.9	13
29	Nuclear-Orientation Study of the Decay of Sb125. Physical Review C, 1971, 4, 565-572.	2.9	12
30	E2M1 Multipole Mixing Ratios in the "Spherical" Nuclei Te124, Te126, and Xe126. Physical Review C, 1971, 3, 1649-1655.	2.9	11
31	Regression line analysis. American Journal of Physics, 1982, 50, 82-84.	0.7	11
32	Nonalignment of the magnetic hyperfine field of Ir in Fe. Physical Review C, 1974, 9, 2063-2066.	2.9	10
33	Apparent absence of electromagnetic or strong-interaction time-reversal violation in the decay of Hf180. Physical Review C, 1974, 10, 840-852.	2.9	10
34	The nuclear magnetic moment of <sup>186</sup> Ir. Journal of Physics G: Nuclear Physics, 1982, 8, 857-870.	0.8	10
35	Nuclear orientation of Nb95,97 and Zr95 in ZrFe2. Physical Review C, 1976, 13, 831-834.	2.9	9
36	UNISOR on-line nuclear orientation facility (UNISOR/NOF). Hyperfine Interactions, 1988, 43, 151-156.	0.5	9

#	ARTICLE	IF	CITATIONS
37	Cosmic-ray half-life of $^{56}\text{Ni}$ . <i>Physical Review C</i> , 1999, 59, 3393-3396.	2.9	9
38	The decays of $^{70,72}\text{Ga}$ to levels of $^{70,72}\text{Ge}$ and the neutron capture cross sections of $^{69,71}\text{Ga}$ . <i>Applied Radiation and Isotopes</i> , 2012, 70, 1649-1657.	1.5	9
39	Nuclear-orientation measurement of parity admixture in the 501-keV gamma transition in $^{180}\text{Hf}$ . <i>Physical Review C</i> , 1975, 12, 286-292.	2.9	8
40	Nuclear orientation of $^{76}\text{As}$ . <i>Physical Review C</i> , 1976, 13, 1991-1995.	2.9	8
41	Neutron capture cross section of $^{44}\text{Ti}$ . <i>Physical Review C</i> , 1998, 58, 2531-2537.	2.9	8
42	Neutron capture by $^{94,96}\text{Zr}$ and the decays of $^{97}\text{Zr}$ and $^{97}\text{Nb}$ . <i>Applied Radiation and Isotopes</i> , 2014, 94, 60-66.	1.5	8
43	Determination of the nuclear magnetic moment of $^{175}\text{Hf}$ by nuclear orientation. <i>Physical Review C</i> , 1976, 14, 656-659.	2.9	7
44	Nuclear orientation study of $^{166}\text{Ho}$ . <i>Physical Review C</i> , 1981, 24, 654-664.	2.9	7
45	Electron-Capture and $\beta^+$ Decay of $^{122}\text{Sb}$ Oriented in Iron. <i>Physical Review C</i> , 1971, 4, 1329-1333.	2.9	6
46	First-excited $0^+$ state in $^{144}\text{Nd}$ . <i>Physical Review C</i> , 1983, 27, 2863-2868.	2.9	6
47	$\beta^+$ -ray spectroscopy in the decays of $^{80}\text{mBr}$ and $^{82}\text{gBr}$ . <i>Applied Radiation and Isotopes</i> , 2011, 69, 201-204.	1.5	6
48	Ultralow Temperature Rotating Nuclear Polarization System. <i>Review of Scientific Instruments</i> , 1971, 42, 1475-1479.	1.3	5
49	Nuclear magnetic moment of $^{65}\text{Ni}$ . <i>Physical Review C</i> , 1976, 14, 650-652.	2.9	5
50	Angular correlation measurements in the decay of $^{105}\text{Ru}$ . <i>Physical Review C</i> , 1977, 16, 1576-1580.	2.9	5
51	Neutron capture cross sections of $^{148}\text{Gd}$ and the decay of $^{149}\text{Gd}$ . <i>Physical Review C</i> , 2006, 74, .	2.9	5
52	The decays of $^{109,111}\text{Pd}$ and $^{111}\text{Ag}$ following neutron capture by Pd. <i>Applied Radiation and Isotopes</i> , 2015, 105, 278-289.	1.5	5
53	Enhanced-Sensitivity $\beta^+\beta^+$ Correlation Test of Time-Reversal Invariance in $^{180}\text{Hf}$ . <i>Physical Review Letters</i> , 1973, 31, 1514-1517.	7.8	4
54	Nuclear magnetic moment of $^{59}\text{Fe}$ . <i>Physical Review C</i> , 1976, 14, 653-655.	2.9	4

#	ARTICLE	IF	CITATIONS
55	Angular correlation measurements in the decay of $Zn^{71}$ . <i>Physical Review C</i> , 1978, 17, 2213-2218.	2.9	4
56	The decay of $^{194}Au$ to levels in $^{194}Pt$ . <i>Applied Radiation and Isotopes</i> , 2015, 103, 135-142.	1.5	4
57	Cross sections and isomer ratios in the $Rb(n,\gamma)$ and $Sr(n,\gamma)$ reactions. <i>European Physical Journal A</i> , 2021, 57, 1.	2.5	4
58	Triple angular correlations in the decay of $^{110}Ag^m$ . <i>Physical Review C</i> , 1988, 37, 747-753.	2.9	3
59	Gamma-ray energies in the decay of $^{38}Cl$ . <i>Applied Radiation and Isotopes</i> , 2012, 70, 740-742.	1.5	3
60	Gamma-ray spectroscopy in the decay of $^{83}Se$ to levels of $^{83}Br$ . <i>Applied Radiation and Isotopes</i> , 2015, 97, 12-20.	1.5	3
61	Neutron capture cross sections of $^{194}Hg$ and the decays of $^{195}Hg$ . <i>Applied Radiation and Isotopes</i> , 2015, 96, 83-90.	1.5	3
62	Neutron capture cross sections of $^{70}Zn$ and the decay of $^{71m}Zn$ . <i>Applied Radiation and Isotopes</i> , 2017, 121, 28-37.	1.5	3
63	Neutron capture cross sections of stable $Cd$ isotopes. <i>European Physical Journal A</i> , 2019, 55, 1.	2.5	3
64	Angular correlation measurements in the decay of $Ru^{97}$ . <i>Physical Review C</i> , 1977, 15, 1589-1591.	2.9	2
65	Angular correlations in the decays of $Eu^{147,149}$ . <i>Physical Review C</i> , 1980, 22, 1254-1259.	2.9	2
66	Iterative solutions of transcendental equations of mathematical physics with the programmable pocket calculator. <i>American Journal of Physics</i> , 1982, 50, 521-527.	0.7	2
67	Nuclear orientation of $Ru^{103}$ : Reanalysis. <i>Physical Review C</i> , 1983, 27, 411-412.	2.9	2
68	On-line nuclear orientation of odd-odd $^{120}I$ . <i>Hyperfine Interactions</i> , 1988, 43, 353-362.	0.5	2
69	Gamma-ray spectrometry in the decay of $^{194}Ir$ to $^{194}Pt$ . <i>Applied Radiation and Isotopes</i> , 2016, 115, 32-36.	1.5	2
70	$\hat{I}^3$ -ray spectroscopy of $Sm^{150}$ through the $\hat{I}^2$ decay of $Pm^{150}$ ( $T=2.7$ h) and $Eum^{150}$ ( $T=12.8$ h). <i>Physical Review C</i> , 2018, 98, .	2.9	2
71	Neutron capture cross sections of $Hf^{178}$ leading to $Hfm^{2179}$ . <i>Physical Review C</i> , 2019, 99, .	2.9	2
72	Neutron capture cross sections of $Pd$ $^{108}$ and $^{110}$ . <i>Physical Review C</i> , 2019, 99, .	2.9	2

#	ARTICLE	IF	CITATIONS
73	Nuclear structure studies of $^{187}\text{Ir}$ via on-line nuclear orientation. <i>Hyperfine Interactions</i> , 1992, 75, 447-455.	0.5	1
74	Cosmic-ray half-life of $^{144}\text{Pm}$ . <i>Physical Review C</i> , 1998, 57, 2046-2048.	2.9	1
75	The decays of $^{117}\text{Cd}$ following neutron activation of enriched $^{116}\text{Cd}$ . <i>Applied Radiation and Isotopes</i> , 2018, 132, 47-56.	1.5	1
76	Neutron capture cross sections of $^{74}$ , $^{76}$ , $^{78}$ , $^{80}$ , $^{82}\text{Se}$ . <i>European Physical Journal A</i> , 2019, 55, 1.	2.5	1
77	Cross sections for thermal neutron capture by $^{180}\text{W}$ and $^{184}\text{W}$ . <i>Applied Radiation and Isotopes</i> , 2019, 146, 115-119.	1.5	1
78	The $^{89}\text{Y}(n, \hat{\beta}^3)$ reaction: Radiative cross sections and the decay of $^{90}\text{Y}$ . <i>Applied Radiation and Isotopes</i> , 2020, 163, 109191.	1.5	1
79	Motional Correlation Time of Dilute $^{111}\text{Cd}$ Impurities in Se-Rich Liquid Se-Te Alloys. <i>Materials Research Society Symposia Proceedings</i> , 1980, 3, 369.	0.1	0
80	$g_R$ and $g_K$ factors in deformed nuclei. <i>Hyperfine Interactions</i> , 1985, 22, 349-353.	0.5	0
81	Summary remarks and future prospects for on-line nuclear orientation. <i>Hyperfine Interactions</i> , 1985, 22, 599-612.	0.5	0
82	An Investigation of $^{154}\text{Eu}$ as a High-Precision Multi- $\hat{\beta}^3$ -Ray Intensity Calibration Standard for Detector Arrays. <i>AIP Conference Proceedings</i> , 2005, , .	0.4	0