

# J F Sharpey-Schafer

## List of Publications by Year in descending order

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104  
papers

3,164  
citations

186265

28  
h-index

168389

53  
g-index

104  
all docs

104  
docs citations

104  
times ranked

736  
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of a Discrete-Line Superdeformed Band up to $60\hbar^2$ in $^{152}\text{Dy}$ . Physical Review Letters, 1986, 57, 811-814.	7.8	546
2	Observation of identical superdeformed bands in $N=86$ nuclei. Physical Review Letters, 1990, 64, 1650-1653.	7.8	228
3	The measurement of the lifetimes of excited nuclear states. Reports on Progress in Physics, 1979, 42, 1-86.	20.1	107
4	Intrinsic quadrupole moment of the superdeformed band in $^{152}\text{Dy}$ . Physical Review Letters, 1987, 59, 2141-2144.	7.8	99
5	Observation of Superdeformation in $^{152}\text{Dy}$ . Physical Review Letters, 1984, 52, 507-510.	7.8	98
6	Evidence for Octupole Correlations in Multiple Chiral Doublet Bands. Physical Review Letters, 2016, 116, 112501.	7.8	86
7	Possible chirality in the doubly-odd $^{119}\text{Sn}$ nucleus: Residual interaction at play. Physical Review C, 2008, 78, .	2.9	75
8	Observation of a Prolate-to-Oblate Shape Change Near Spin $40\hbar^2$ in $^{158}\text{Er}$ . Physical Review Letters, 1984, 53, 648-651.	7.8	73
9	Landau-Zener crossing in superdeformed $^{193}\text{Hg}$ : Evidence for octupole correlations in superdeformed nuclei. Physical Review Letters, 1990, 65, 1547-1550.	7.8	71
10	Quadrupole Moment of a High-Spin Yrast Trap in $^{147}\text{Gd}$ . Physical Review Letters, 1980, 44, 132-135.	7.8	63
11	High-K-barrier penetration in $^{174}\text{Hf}$ : A challenge to K-selection. Physical Review Letters, 1990, 65, 416-419.	7.8	60
12	First measurement of magnetic properties in a superdeformed nucleus: $^{193}\text{Hg}$ . Physical Review Letters, 1993, 71, 2176-2179.	7.8	53
13	Near-yrast discrete line $\gamma$ -ray spectroscopy of $^{159}\text{Er}$ and $^{160}\text{Er}$ to $I^\pi$ or $40\hbar^2$ . Journal of Physics G: Nuclear Physics, 1987, 13, 847-881.	0.8	50
14	Coexistence of Prolate and Oblate Structures up to Spin $40\hbar^2$ in $^{152}\text{Dy}$ . Physical Review Letters, 1986, 56, 2680-2683.	7.8	49
15	Spectrum of $\beta^3$ Rays Connecting Superdeformed and Normal States in $^{192}\text{Hg}$ . Physical Review Letters, 1994, 73, 777-781.	7.8	49
16	Lifetimes for Levels above the "Rotational Phase Change" in $^{158}\text{Er}$ . Physical Review Letters, 1973, 30, 493-496.	7.8	48
17	Rotational alignment in $^{158}\text{Er}$ and $^{159}\text{Er}$ . Journal of Physics G: Nuclear Physics, 1984, 10, 383-416.	0.8	46
18	Congruent band structures in $^{154}\text{Gd}$ : Configuration-dependent pairing, a double vacuum and lack of $\beta$ -vibrations. European Physical Journal A, 2011, 47, 1.	2.5	44

#	ARTICLE	IF	CITATIONS
19	Lifetime measurements in $^{27}\text{Al}$ . Canadian Journal of Physics, 1968, 46, 261-267.	1.1	43
20	Signature-Dependent Proton Alignments at High Rotational Frequency and the Persistence of Proton Pairing Correlations. Physical Review Letters, 1985, 54, 1132-1135.	7.8	41
21	Gamma-ray spectroscopy of superdeformed states in the nucleus $^{152}\text{Dy}$ . Journal of Physics G: Nuclear and Particle Physics, 1991, 17, 481-510.	3.6	36
22	The $^{132}\text{proton}$ intruder orbital in the superdeformed $^{193}\text{Tl}$ nucleus: Effective magnetic moment and blocking of proton pairing. Physical Review C, 1996, 53, R9-R13.	2.9	36
23	Lifetimes and decay modes of energy levels in $^{25}\text{Mg}$ . Canadian Journal of Physics, 1968, 46, 2039-2053.	1.1	35
24	Collective and quasiparticle excitations in superdeformed $^{190}\text{Hg}$ . Physical Review C, 1996, 54, 559-567.	2.9	34
25	Collective dipole rotational bands in $^{197}\text{Pb}$ . Zeitschrift für Physik A, 1992, 342, 371-372.	0.9	32
26	High-spin structure of $^{121}\text{Xe}$ : triaxiality and band termination. Journal of Physics G: Nuclear and Particle Physics, 1995, 21, 783-802.	3.6	30
27	Decay modes and level lifetimes in $^{41}\text{Ca}$ and $^{41}\text{K}$ . Journal of Physics G: Nuclear Physics, 1976, 2, 577-587.	0.8	29
28	Stiffly deformed nuclei, configuration dependent pairing and the $\beta^2$ and $\gamma^3$ degrees of freedom. European Physical Journal A, 2019, 55, 1.	2.5	29
29	Blocking of coupling to the $0_2^+$ excitation in $^{154}\text{Gd}$ by the $[505]11/2^-$ neutron in $^{155}\text{Gd}$ . European Physical Journal A, 2011, 47, 1.	2.5	28
30	Collectivity of the Superdeformed Bands in $^{152}\text{Dy}$ . Physical Review Letters, 1985, 55, 1380-1383.	7.8	27
31	Spin $50\hbar$ in $^{160}\text{Er}$ and the boundary between collective and non-collective rotation in the light Er isotopes. Journal of Physics G: Nuclear Physics, 1987, 13, L235-L240.	0.8	27
32	Rotational band structures in $^{154}\text{Gd}$ . Journal of Physics G: Nuclear and Particle Physics, 1989, 15, 1871-1892.	3.6	27
33	Degenerate superdeformed states in $^{150}\text{Gd}$ . Physical Review Letters, 1993, 71, 1800-1803.	7.8	27
34	Linear Polarization of the Continuum $\beta^3$ Rays Feeding High-Spin Yrast States in $^{151,152}\text{Dy}$ and $^{156,158}\text{Er}$ . Physical Review Letters, 1979, 43, 991-994.	7.8	26
35	Fragmentation of the Decay from the Superdeformed Yrast Band in $^{192}\text{Hg}$ . Physical Review Letters, 1996, 77, 1707-1710.	7.8	24
36	Two proton high-spin excitations and dipole bands in $^{192}\text{Hg}$ . Zeitschrift für Physik A, 1994, 348, 87-93.	0.9	23

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37	Superdeformation in bismuth. <i>Physical Review C</i> , 1996, 53, 117-123.	2.9	23
38	Lifetimes and decay modes of energy levels in $^{23}\text{Na}$ , $^{26}\text{Mg}$ and $^{26}\text{Al}$ . <i>Journal of Physics A: General Physics</i> , 1972, 5, 302-317.	0.8	22
39	The strong interaction strength of the first proton alignment in $^{157}\text{Ho}$ . <i>Journal of Physics G: Nuclear Physics</i> , 1986, 12, L67-L74.	0.8	22
40	High-spin gamma -ray spectroscopy of $^{122}\text{Xe}$ . <i>Journal of Physics G: Nuclear and Particle Physics</i> , 1994, 20, 287-305.	3.6	22
41	Dipole bands and multi-quasiparticle excitations in $^{193}\text{Pb}$ . <i>Zeitschrift für Physik A</i> , 1996, 356, 241-249.	0.9	22
42	Linear Polarization Measurement of Interband Transitions in Superdeformed $^{190}\text{Hg}$ : Model-Independent Evidence for Octupole Vibrational Structures. <i>Physical Review Letters</i> , 2001, 86, 2746-2749.	7.8	22
43	First observation of collective dipole rotational bands in the neutron-deficient bismuth nuclei. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 1993, 19, L57-L62.	3.6	21
44	Two-proton high-K oblate structures in $^{194}\text{Pb}$ . <i>Journal of Physics G: Nuclear and Particle Physics</i> , 1994, 20, 765-773.	3.6	21
45	Recoil distance lifetime measurements of states in the oblate dipole bands of $^{197,198}\text{Pb}$ . <i>Physical Review C</i> , 1994, 50, 84-92.	2.9	21
46	Electromagnetic and angular momentum properties of states in $^{25}\text{Mg}$ below 6.05 MeV in excitation. <i>Journal of Physics G: Nuclear Physics</i> , 1975, 1, 665-684.	0.8	20
47	Yrast band spectroscopy of $^{155}\text{Gd}$ and $^{157}\text{Dy}$ . <i>Zeitschrift für Physik A</i> , 1993, 345, 121-122.	0.9	20
48	Properties of $^{37}\text{Ar}$ II. Levels above 3.8 MeV excitation energy (populated in $^{34}\text{S}(\hat{1}^{\pm}, n \hat{1}^3)^{37}\text{Ar}$ ). <i>Journal of Physics G: Nuclear Physics</i> , 1975, 1, 35-52.	0.8	19
49	Properties of levels in $^{41}\text{K}$ below 3.3 MeV. <i>Journal of Physics G: Nuclear Physics</i> , 1978, 4, 907-921.	0.8	19
50	Unpaired band crossings. <i>Physical Review Letters</i> , 1988, 60, 553-556.	7.8	19
51	The high-spin single-particle structure of $^{121}\text{I}$ . <i>Journal of Physics G: Nuclear and Particle Physics</i> , 1993, 19, 913-919.	3.6	19
52	Configurations of superdeformed bands in $^{193}\text{Pb}$ . <i>Physical Review C</i> , 1996, 53, 2701-2708.	2.9	19
53	A comprehensive study of the $\hat{1}^3$ -ray spectroscopy of $^{43}\text{Ca}$ . <i>Journal of Physics G: Nuclear Physics</i> , 1979, 5, 1117-1155.	0.8	18
54	Pair Excitations and a Proton Band Crossing in Superdeformed $^{150}\text{Gd}$ . <i>Physical Review Letters</i> , 1994, 73, 782-785.	7.8	18

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55	New results on the superdeformed band in $^{192}\text{Hg}$ . Zeitschrift für Physik A, 1994, 347, 223-224.	0.9	18
56	Quasiparticle and $\hat{I}^3$ -band structures in $^{156}\text{Dy}$ . Physical Review C, 2018, 97, .	2.9	18
57	The spectroscopy of $^{161,162}\text{Er}$ at spins up to $50\hbar$ , in the unpaired regime. Journal of Physics G: Nuclear and Particle Physics, 1990, 16, L67-L73.	3.6	17
58	Coexistence of collective oblate and superdeformed prolate shapes in $^{196}\text{Pb}$ . Journal of Physics G: Nuclear and Particle Physics, 1993, 19, 465-470.	3.6	17
59	High spin states in $^{39}\text{K}$ . Journal of Physics G: Nuclear Physics, 1975, 1, L33-L39.	0.8	15
60	Superdeformation in the bismuth nuclei. Physical Review C, 1995, 51, R1052-R1056.	2.9	15
61	The properties of low-lying levels in $^{37}\text{Cl}$ (populated in $^{34}\text{S}(\hat{I}_{\pm}, \hat{p}^3)$ reaction). Journal of Physics A: Mathematical Nuclear and General, 1974, 7, 1437-1447.	1.0	14
62	Exploring the $\hbar = 50-60$ domain: collective and terminating structures in $^{156}\text{Dy}$ , $^{159}\text{Er}$ and $^{160}\text{Er}$ . Journal of Physics G: Nuclear and Particle Physics, 1999, 25, 897-899.	3.6	14
63	Lifetime measurements in $^{36}\text{Ar}$ and $^{36}\text{Cl}$ using the recoil distance method.. Journal of Physics A: Mathematical Nuclear and General, 1973, 6, L37-L40.	1.0	13
64	Gamma-ray spectroscopy of high-spin levels in $^{67}\text{Ga}$ . Journal of Physics G: Nuclear Physics, 1978, 4, 1611-1632.	0.8	13
65	The end-point energy of the superallowed Fermi decay of $^{38}\text{mK}$ . Journal of Physics G: Nuclear Physics, 1978, 4, 579-585.	0.8	12
66	High spin structures of $^{122}\text{Xe}$ . Zeitschrift für Physik A, 1997, 358, 37-45.	0.9	12
67	Octupole correlations in $^{88}\text{Yb}$ and $^{154}\text{Sm}$ : Octupole vibration versus stable deformation. Physical Review C, 2016, 94, .	2.9	12
68	The electric field gradient for Gd in gadolinium metal. Hyperfine Interactions, 1980, 8, 271-281.	0.5	11
69	The structure of states at very high spin in $^{157}\text{Er}$ . Journal of Physics G: Nuclear and Particle Physics, 1989, 15, 643-659.	3.6	11
70	M1 transitions between superdeformed states in $^{194}$ , $^{195}\text{Tl}$ : The fingerprint of the $13/2$ proton intruder orbital. Physica Scripta, 1995, T56, 35-38.	2.5	11
71	Two-Particle Separation Energy Trends in the Superdeformed Well. Physical Review Letters, 2010, 104, 162501.	7.8	11
72	High-spin states in $^{43}\text{K}$ . Journal of Physics G: Nuclear Physics, 1979, 5, 971-979.	0.8	10

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73	High spin levels in $^{119}\text{Te}$ . Zeitschrift für Physik A, 1995, 352, 243-244.	0.9	10
74	Intrinsic proton states around the superdeformed shell closure $Z=80$ . Physical Review C, 1998, 58, 3260-3265.	2.9	10
75	Gamma ray spectroscopy studies in the nuclei $^{36}\text{Ar}$ and $^{36}\text{Cl}$ . Journal of Physics G: Nuclear Physics, 1976, 2, 249-260.	0.8	9
76	A study of the principal decay modes and lifetimes of levels in $^{29}\text{Si}$ below 7.2 MeV. Journal of Physics A: General Physics, 1972, 5, 596-604.	0.8	8
77	Evidence of Further Rotational Structure in $^{26}\text{Al}$ . Physical Review C, 1972, 6, 494-497.	2.9	8
78	Angular distribution and linear polarisation measurements of gamma rays in $^{41}\text{Ca}$ . Journal of Physics G: Nuclear Physics, 1980, 6, 619-635.	0.8	8
79	High-spin results for $^{155}\text{Tb}$ . Physical Review C, 1996, 53, 989-992.	2.9	8
80	Decay and lifetimes of levels in $^{21}\text{Ne}$ . Journal of Physics A: General Physics, 1971, 4, 908-917.	0.8	7
81	The 4.510 MeV level in $^{27}\text{Al}$ . Journal of Physics A: Mathematical Nuclear and General, 1974, 7, 1151-1155.	1.0	7
82	Seven and nine quasi-particle K-isomers in $^{175}\text{Hf}$ . Zeitschrift für Physik A, Atomic Nuclei, 1990, 337, 353-354.	0.3	7
83	Dipole bands in the oblate-shaped $^{195}\text{Pb}$ . Zeitschrift für Physik A, 1996, 354, 267-275.	0.9	7
84	Low-lying positive parity bands in $^{162}\text{Yb}$ . European Physical Journal A, 2018, 54, 1.	2.5	7
85	Mean lifetimes of levels in $^{32}\text{P}$ and $^{32}\text{S}$ (populated in $^{29}\text{Si}(\hat{\pm}, p)$ and $^{29}\text{Si}(\hat{\pm}, n)$ reactions). Journal of Physics A: Mathematical Nuclear and General, 1973, 6, 705-712.	1.0	6
86	Yrare low-spin positive-parity states in $N = 88$ $^{154}\text{Dy}$ . European Physical Journal A, 2018, 54, 1.	2.5	6
87	Stapler mechanism for a dipole band in $^{79}\text{Se}$ . Physical Review C, 2019, 100, .		6
88	The character of high-spin positive parity states in $^{41}\text{Ca}$ . Journal of Physics G: Nuclear Physics, 1977, 3, L75-L79.	0.8	5
89	Dipole bands and multi-quasiparticle excitations in $^{193}\text{Pb}$ . Zeitschrift für Physik A, 1987, 356, 241-249.	0.9	5
90	Confirmation of the existence of a superdeformed rotational band in $^{192}\text{Pb}$ . Zeitschrift für Physik A, 1995, 352, 13-14.	0.9	5

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91	Competition of rotation around the intermediate and long axes in Tl193. Physical Review C, 2019, 100, .	2.9	5
92	First observation of a superdeformed nucleus produced in an $\hat{I}\pm$ xn reaction channel. Zeitschrift für Physik A, 1994, 349, 5-6.	0.9	4
93	High spin structures in $^{194}\text{Hg}$ . Zeitschrift für Physik A, 1996, 354, 169-175.	0.9	4
94	High-resolution two-proton stripping to $2p\text{-}1h$ $7/2^-$ states via the $^{59}\text{Co}(^3\text{He},n\ \gamma)^{61}\text{Cu}$ reaction. European Physical Journal A, 2014, 50, 1.	2.5	3
95	High-spin structure of $^{121}\text{Xe}$ : Triaxiality, band termination and signature inversion. Physica Scripta, 1995, T56, 325-327.	2.5	2
96	Octupole vibrations of the superdeformed $^{196}\text{Pb}$ nucleus. Acta Physica Hungarica A Heavy Ion Physics, 1997, 6, 289-293.	0.4	2
97	Two-Particle Separation Energies in the Superdeformed Well. Journal of Physics: Conference Series, 2011, 312, 092065.	0.4	1
98	Spin-parity assignments and extension of the $0_2^+$ band in $^{158}\text{Er}$ . EPJ Web of Conferences, 2013, 63, 01005.	0.3	1
99	Spectroscopic study of the possibly triaxial transitional nucleus $^{75}\text{Ge}$ . Physical Review C, 2018, 97, .	2.9	1
100	Shape Coexistence and Discrete Superdeformed States up to $60\text{Å}$ in $^{152}\text{Dy}$ . , 1986, , 88-97.		1
101	Superdeformation. , 1989, , 147-182.		1
102	Study of Mass $A=130$ Fission Fragments in the $^{14}\text{n} + ^{238}\text{U}$ Reaction at 10 MeV/A. , 2000, , 63-67.		0
103	TETRAHEDRAL SHAPES AND OCTUPOLE EXCITATIONS IN THE MASS 160 AND 230 REGIONS. , 2013, , .		0
104	The Subtleties of Pairing and Collective Structures in Deformed Nuclei. , 2015, , .		0