A S Baran

List of Publications by Year in descending order

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147801 214800 2,777 108 31 47 citations h-index g-index papers 108 108 108 1614 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	A giant planet orbiting the â€~extreme horizontal branch' star V 391 Pegasi. Nature, 2007, 449, 189-191.	27.8	217
2	Spontaneous fission modes and lifetimes of superheavy elements in the nuclear density functional theory. Physical Review C, $2013,87,\ldots$	2.9	163
3	A compact system of small planets around a former red-giant star. Nature, 2011, 480, 496-499.	27.8	156
4	Microscopic description of complex nuclear decay: Multimodal fission. Physical Review C, 2009, 80, .	2.9	96
5	Pairing-induced speedup of nuclear spontaneous fission. Physical Review C, 2014, 90, .	2.9	75
6	A detection threshold in the amplitude spectra calculated from <i>Kepler</i> data obtained during K2 mission. Monthly Notices of the Royal Astronomical Society: Letters, 2015, 448, L16-L19.	3.3	72
7	First Kepler results on compact pulsators - VIII. Mode identifications via period spacings in g-mode pulsating subdwarf B stars. Monthly Notices of the Royal Astronomical Society, 2011, 414, 2885-2892.	4.4	66
8	First Kepler results on compact pulsators - VI. Targets in the final half of the survey phase. Monthly Notices of the Royal Astronomical Society, 2011, 414, 2860-2870.	4.4	63
9	Three ways to solve the orbit of KIC 11 558 725: a 10-day beaming sdB+WD binary with a pulsating subdwarf. Astronomy and Astrophysics, 2012, 544, A1.	5.1	59
10	Masses and radii of spherical nuclei calculated in various microscopic approaches. Physical Review C, 1999, 59, 704-713.	2.9	58
11	A pulsation zoo in the hot subdwarf B star KIC 10139564 observed by Kepler. Monthly Notices of the Royal Astronomical Society, 2012, 424, 2686-2700.	4.4	57
12	Stochastic Modeling of Multiwavelength Variability of the Classical BL Lac Object OJ 287 on Timescales Ranging from Decades to Hours. Astrophysical Journal, 2018, 863, 175.	4.5	56
13	Analysis of Kepler B stars: rotational modulation and Maia variables. Monthly Notices of the Royal Astronomical Society, 2015, 451, 1445-1459.	4.4	55
14	Multicolour photometry of Balloon 090100001: linking the two classes of pulsating hot subdwarfs. Monthly Notices of the Royal Astronomical Society, 2005, 360, 737-747.	4.4	47
15	The pulsation modes of the pre-white dwarf PG 1159-035. Astronomy and Astrophysics, 2008, 477, 627-640.	5.1	46
16	Seismic evidence for non-synchronization in two close sdb+dM binaries from Kepler photometry. Monthly Notices of the Royal Astronomical Society, 2012, 422, 1343-1351.	4.4	45
17	First Kepler results on compact pulsators - III. Subdwarf B stars with V1093 Her and hybrid (DW Lyn) type pulsations. Monthly Notices of the Royal Astronomical Society, 2010, 409, 1496-1508.	4.4	42
18	Observations of the pulsating subdwarf B star Feige 48: Constraints on evolution and companions. Monthly Notices of the Royal Astronomical Society, 2004, 348, 1164-1174.	4.4	41

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19	Asteroseismology revealing trapped modes in KIC 10553698A. Astronomy and Astrophysics, 2014, 569, A15.	5.1	41
20	Discovery of a variable lead-rich hot subdwarf: UVO 0825+15. Monthly Notices of the Royal Astronomical Society, 2017, 465, 3101-3124.	4.4	40
21	Physical parameters of components in close binary systems.Âl. Astronomy and Astrophysics, 2003, 412, 465-471.	5.1	39
22	Analysis of the rich frequency spectrum of KICÂ10670103 revealing the most slowly rotating subdwarf B star in the Kepler field. Monthly Notices of the Royal Astronomical Society, 2014, 440, 3809-3824.	4.4	39
23	Spontaneous fission half-life-times of double-odd nuclei (Z≧97). Zeitschrift Für Physik A, 1985, 322, 695-700.	1.4	37
24	<i>Kepler</i> detection of a new extreme planetary system orbiting the subdwarf-B pulsator KIC 10001893. Astronomy and Astrophysics, 2014, 570, A130.	5.1	37
25	DISCOVERY OF A NEW AM CVn SYSTEM WITH THE <i>KEPLER</i> SATELLITE. Astrophysical Journal, 2011, 726, 92.	4.5	36
26	KIC 7668647: a 14 day beaming sdB+WD binary with a pulsating subdwarf. Astronomy and Astrophysics, 2014, 570, A129.	5.1	36
27	2006 WHOLE EARTH TELESCOPE OBSERVATIONS OF GD358: A NEW LOOK AT THE PROTOTYPE DBV. Astrophysical Journal, 2009, 693, 564-585.	4.5	35
28	The pulsating hot subdwarf Balloon 090100001: results of the 2005 multisite campaign. Monthly Notices of the Royal Astronomical Society, 2009, 392, 1092-1105.	4.4	33
29	Alone but not lonely: Observational evidence that binary interaction is always required to form hot subdwarf stars. Astronomy and Astrophysics, 2020, 642, A180.	5.1	33
30	Mode identification for Balloon 090100001 using combined multicolour photometry and spectroscopy. Monthly Notices of the Royal Astronomical Society, 0, 385, 255-260.	4.4	32
31	First Kepler results on compact pulsators - V. Slowly pulsating subdwarf B stars in short-period binaries. Monthly Notices of the Royal Astronomical Society, 2010, 409, 1509-1517.	4.4	32
32	EMPIRICAL DETERMINATION OF CONVECTION PARAMETERS IN WHITE DWARFS. I. WHOLE EARTH TELESCOPE OBSERVATIONS OF EC14012-1446. Astrophysical Journal, 2012, 751, 91.	4.5	32
33	Detection of a planet in the sdB + M dwarf binary system 2M 1938+4603. Astronomy and Astrophysics, 2015, 577, A146.	5.1	31
34	First Kepler results on compact pulsators - II. KICâ€f010139564, a new pulsating subdwarf B (V361 Hya) star with an additional low-frequency mode. Monthly Notices of the Royal Astronomical Society, 2010, 409, 1487-1495.	4.4	30
35	THE DISCOVERY OF DIFFERENTIAL RADIAL ROTATION IN THE PULSATING SUBDWARF B STAR KIC 3527751. Astrophysical Journal, 2015, 805, 94.	4.5	30
36	Stochastic pulsations in the subdwarf-B star KIC 2991276. Astronomy and Astrophysics, 2014, 564, L14.	5.1	29

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37	The discovery of two pulsating subdwarf B stars in NGC 6791 using <i>Kepler </i> data. Monthly Notices of the Royal Astronomical Society, 2012, 427, 1245-1251.	4.4	24
38	Orbital properties of an unusually low-mass sdB star in a close binary system with a white dwarf. Monthly Notices of the Royal Astronomical Society, 2012, 424, 1752-1761.	4.4	24
39	GD358: Three Decades of Observations for the In-depth Asteroseismology of a DBV Star. Astrophysical Journal, 2019, 871, 13.	4.5	23
40	Whole Earth Telescope Observations of the Pulsating Subdwarf B Star PG 0014+067. Astrophysical Journal, 2006, 646, 1230-1240.	4.5	22
41	First Kepler results on compact pulsators - VII. Pulsating subdwarf B stars detected in the second half of the survey phase. Monthly Notices of the Royal Astronomical Society, 2011, 414, 2871-2884.	4.4	22
42	TESS first look at evolved compact pulsators. Astronomy and Astrophysics, 2019, 632, A42.	5.1	22
43	TESS first look at evolved compact pulsators. Astronomy and Astrophysics, 2019, 632, A90.	5.1	22
44	EPIC 211779126: a rare hybrid pulsating subdwarf B star richly pulsating in both pressure and gravity modes. Astronomy and Astrophysics, 2017, 597, A95.	5.1	20
45	COLLECTIVE INERTIA AND FISSION BARRIERS WITHIN THE SKYRME-HARTREE-FOCK THEORY. International Journal of Modern Physics E, 2007, 16, 443-451.	1.0	19
46	K2 observations of the sdBVÂ+ÂdM/bd binaries PHL 457 and EQ Psc. Monthly Notices of the Royal Astronomical Society, 2019, 489, 1556-1571.	4.4	19
47	A search for variable subdwarf B stars in TESS full frame images – I. Variable objects in the southern ecliptic hemisphere. Monthly Notices of the Royal Astronomical Society, 2020, 499, 5508-5526.	4.4	19
48	Pulsating hydrogen-deficient white dwarfs and pre-white dwarfs observed with TESS. Astronomy and Astrophysics, 2021, 645, A117.	5.1	19
49	Evolutionary modelling of subdwarf B stars using <scp>mesa</scp> with the predictive mixing and convective pre-mixing schemes. Monthly Notices of the Royal Astronomical Society, 2021, 503, 4646-4661.	4.4	19
50	Pulsations and eclipse-time analysis of HW Vir. Monthly Notices of the Royal Astronomical Society, 2018, 481, 2721-2735.	4.4	18
51	A review of seismic observations of Kepler and K2-Observed sdBV stars. Open Astronomy, 2018, 27, 157-166.	0.6	18
52	A pulsation analysis of <i>$K2 < /i$> observations of the subdwarf B star PGÂ1142-037 during Campaign 1: A subsynchronously rotating ellipsoidal variable. Monthly Notices of the Royal Astronomical Society, 2016, 458, 1417-1426.</i>	4.4	17
53	Physical parameters of close binary systems: VIII. Monthly Notices of the Royal Astronomical Society, 2021, 501, 2897-2919.	4.4	17
54	TESS first look at evolved compact pulsators. Astronomy and Astrophysics, 2020, 638, A82.	5.1	17

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55	<i>Kepler</i> >observations of the pulsating subdwarf B star KICÂ2697388: the detection of converging frequency multiplets in the full data set. Monthly Notices of the Royal Astronomical Society, 2017, 465, 1057-1065.	4.4	16
56	Mode identification in three pulsating hot subdwarfs observed with TESS satellite. Monthly Notices of the Royal Astronomical Society, 2020, 495, 2844-2857.	4.4	15
57	KIC 8302197: a non-rotating or low-inclination pulsating subdwarf B star observed with the <i>Kepler</i> spacecraft. Astronomy and Astrophysics, 2015, 573, A52.	5.1	14
58	Discovery of 74 new bright ZZ Ceti stars in the first three years of <i>TESS</i> . Monthly Notices of the Royal Astronomical Society, 2022, 511, 1574-1590.	4.4	14
59	The pulsations of PG 1351+489. Monthly Notices of the Royal Astronomical Society, 2011, 415, 1220-1227.	4.4	13
60	A subsynchronously rotating pulsating subdwarf B star in a short-period binary with a white dwarf companion. Astronomy and Astrophysics, 2016, 585, A66.	5.1	13
61	A Search for QPOs in the Blazar OJ287: Preliminary Results from the 2015/2016 Observing Campaign. Galaxies, 2016, 4, 41.	3.0	13
62	Exotic toroidal and superdeformed configurations in light atomic nuclei: Predictions using a mean-field Hamiltonian without parametric correlations. Physical Review C, 2021, 103, .	2.9	13
63	PARTICLE NUMBER CONSERVING APPROACH TO CORRELATIONS. International Journal of Modern Physics E, 2007, 16, 289-297.	1.0	12
64	BREAKING OF AXIAL AND REFLECTION SYMMETRIES IN SPONTANEOUS FISSION OF FERMIUM ISOTOPES. International Journal of Modern Physics E, 2011, 20, 552-556.	1.0	12
65	Asteroseismic analysis of the pulsating subdwarf B star KIC 11558725: an sdB+WD system with divergent frequency multiplets and mode trapping observed by Kepler. Monthly Notices of the Royal Astronomical Society, 2018, 474, 4709-4716.	4.4	12
66	Two $\langle i \rangle p \langle i \rangle$ -mode dominated subdwarf B pulsators in binaries with F-star companions observed with K2. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	12
67	A search for variable subdwarf B stars in <i>TESS</i> Full Frame Images – II. Variable objects in the northern ecliptic hemisphere. Monthly Notices of the Royal Astronomical Society, 2021, 503, 3828-3847.	4.4	12
68	Neutron halos in heavy nuclei-relativistic mean field approach. Zeitschrift Für Physik A, 1997, 357, 33-38.	0.9	11
69	Resolving the pulsations of the subdwarf B star KPD 2109 + 4401. Monthly Notices of the Royal Astronomical Society, 2006, 367, 179-185.	4.4	11
70	K2 Campaign 5 observations of pulsating subdwarf B stars: binaries and super-Nyquist frequencies. Monthly Notices of the Royal Astronomical Society, 2018, 474, 5186-5198.	4.4	11
71	High-degree gravity modes in the single sdB star HD 4539. Monthly Notices of the Royal Astronomical Society, 2019, 489, 4791-4801.	4.4	11
72	About the existence of warm H-rich pulsating white dwarfs. Astronomy and Astrophysics, 2020, 633, A20.	5.1	11

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73	Exotic shape symmetries around the fourfold octupole magic number <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>N</mml:mi><mml:mo>=<th>• ยเลml:mn</th><th>ил136</th></mml:mo></mml:mrow></mml:math>	• ยเล ml:mn	и л1 36
74	\$delta\$ -pairing forces and collective pairing vibrations. European Physical Journal A, 2004, 20, 413-418.	2.5	10
75	Whole Earth Telescope observations of the subdwarf B star KPD $\hat{a} \in f1930+2752$: a rich, short-period pulsator in a close binary. Monthly Notices of the Royal Astronomical Society, 2011, 412, 371-390.	4.4	10
76	KIC 10001893: a pulsating sdB star with multiple trapped modes. Monthly Notices of the Royal Astronomical Society, 2017, 472, 700-707.	4.4	10
77	J08069+1527: a newly discovered high-amplitude, hybrid subdwarf B pulsator. Monthly Notices of the Royal Astronomical Society, 2011, 413, 2838-2844.	4.4	9
78	Asteroseismic analysis of variable hot subdwarf stars observed with TESS. Astronomy and Astrophysics, 2021, 651, A121.	5.1	9
79	<i>K2</i> observations of pulsating subdwarf B stars: Analysis of EPIC 203948264 observed during Campaign 2. Monthly Notices of the Royal Astronomical Society, 0, , stx104.	4.4	8
80	K2 observations of the pulsating subdwarf B stars UY Sex and V1405 Ori. Monthly Notices of the Royal Astronomical Society, 2020, 492, 5202-5217.	4.4	8
81	PHL 417: a zirconium-rich pulsating hot subdwarf (V366 Aquarid) discovered in <i>K2</i> data. Monthly Notices of the Royal Astronomical Society, 2020, 499, 3738-3748.	4.4	8
82	Pulsating hydrogen-deficient white dwarfs and pre-white dwarfs observed with TESS. Astronomy and Astrophysics, 2022, 659, A30.	5.1	7
83	TESS observations of pulsating subdwarf B stars: extraordinarily short-period gravity modes in CDâ^'28° 1974. Monthly Notices of the Royal Astronomical Society, 2020, 493, 5162-5169.	4.4	6
84	Pulsating subdwarf B stars observed with $\langle i \rangle K2 \langle j \rangle$ during Campaign 7 and an examination of seismic group properties. Monthly Notices of the Royal Astronomical Society, 2021, 507, 4178-4195.	4.4	6
85	RAT J0455+1305: a rare hybrid pulsating subdwarf B star. Monthly Notices of the Royal Astronomical Society, 2011, 411, 776-780.	4.4	5
86	Space observations of AAÂDoradus provide consistent mass determinations. New HW-Vir systems observed with <i>TESS</i> . Monthly Notices of the Royal Astronomical Society, 2021, 503, 2157-2167.	4.4	5
87	Filling the gap between synchronized and non-synchronized sdBs in short-period sdBV+dM binaries with TESS: TlC 137608661, a new system with a well-defined rotational splitting. Monthly Notices of the Royal Astronomical Society, 2022, 511, 2201-2217.	4.4	5
88	Half lives of heaviest nuclei with Woods-Saxon potential. Zeitschrift Fýr Physik A, Atomic Nuclei, 1988, 329, 161-167.	0.3	4
89	Ground-state properties of superheavy elements in macroscopic-microscopic models. European Physical Journal A, 2005, 25, 611-612.	2.5	4
90	RATO455+1305: another pulsating hybrid sdB star. Astrophysics and Space Science, 2010, 329, 193-197.	1.4	4

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91	Multiyear and multisite photometric campaigns on the bright high-amplitude pulsating subdwarf B star EC 01541-1409. Monthly Notices of the Royal Astronomical Society, 2012, , no-no.	4.4	4
92	Constraining the degree of the dominant mode in QQ Vir. Astrophysics and Space Science, 2010, 329, 199-203.	1.4	3
93	GALEX J201337.6+092801: THE LOWEST GRAVITY SUBDWARF B PULSATOR. Astrophysical Journal Letters, 2011, 731, L13.	8.3	3
94	A Hot Subdwarf B Star Eclipsed by a Low-mass White Dwarf in TESS Data. Research Notes of the AAS, 2019, 3, 81.	0.7	3
95	Pulsating subdwarf B stars in the oldest open cluster NGC 6791. Monthly Notices of the Royal Astronomical Society, 2021, 509, 763-777.	4.4	3
96	New estimates for the parameters of the modified oscillator potential of the rare earth nuclei. Zeitschrift FÃ $\frac{1}{4}$ r Physik A, 1980, 295, 299-301.	1.4	2
97	Time-resolved high-resolution spectroscopy of the pulsating sdB star QQ Vir (PG1325+101). Astrophysics and Space Science, 2010, 329, 163-166.	1.4	2
98	New modified oscillator potential for nuclei in the actinide region. Zeitschrift FÃ $\frac{1}{4}$ r Physik A, 1979, 291, 175-178.	1.4	1
99	Exchange bias phenomenon in (Nd1 \hat{a} ' <i>x</i> Y <i>x</i>)2/3Ca1/3MnO3 (<i>x</i> = 0, 0.1) perovskites. Low Temperature Physics, 2015, 41, 1001-1005.	0.6	1
100	A planet orbiting an sdB star and an M dwarf in 2M 1938+4603. EPJ Web of Conferences, 2015, 101, 06010.	0.3	1
101	Searching for planets around sdB stars. Proceedings of the International Astronomical Union, 2015, 11, 497-500.	0.0	1
102	Detection of a Planet in 2M1938+4603 Revisited. Research Notes of the AAS, 2020, 4, 237.	0.7	1
103	PG 1605+072 in Wet XCov22: Support for the Multi Site Spectroscopic Telescope. Open Astronomy, 2003, 12, .	0.6	0
104	Preliminary XCOV26 results for EC14012-1446. Journal of Physics: Conference Series, 2009, 172, 012061.	0.4	0
105	Mt. Suhora M dwarf survey – Detection of eight short-period variable stars. New Astronomy, 2012, 17, 65-72.	1.8	0
106	A search for pulsating blue stars in the vicinity of NGC 6791 using KeplerLC data. EPJ Web of Conferences, 2015, 101, 06061.	0.3	0
107	Detection of stellar oscillations in HWVir. Open Astronomy, 2016, 26, .	0.6	0
108	Subsynchronous sdBV binaries. Journal of Physics: Conference Series, 2016, 728, 072015.	0.4	0