Peter A Becker

List of Publications by Year in descending order

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394421 395702 1,157 55 19 citations h-index papers

g-index 55 55 55 870 docs citations times ranked citing authors all docs

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#	Article	IF	Citations
1	An Analytical Fourier Transformation Model for the Production of Hard and Soft X-Ray Time Lags in Active Galactic Nuclei: Application to 1H 0707-495. Astrophysical Journal, 2022, 932, 113.	4.5	0
2	A two-fluid model for black-hole accretion flows: Particle acceleration, outflows, and TeV emission. Monthly Notices of the Royal Astronomical Society, 2020, 491, 4194-4220.	4.4	2
3	The giant outburst of 4U 0115+634 in 2011 with <i>Suzaku</i> and RXTE. Astronomy and Astrophysics, 2020, 634, A99.	5.1	7
4	Electron Acceleration in Blazars: Application to the 3C 279 Flare on 2013 December 20. Astrophysical Journal, 2019, 884, 116.	4.5	10
5	Time-dependent Electron Acceleration in Pulsar Wind Termination Shocks: Application to the 2007 September Crab Nebula Gamma-Ray Flare. Astrophysical Journal, 2019, 872, 65.	4.5	2
6	A Steady-state Spectral Model for Electron Acceleration and Cooling in Blazar Jets: Application to 3C 279. Astrophysical Journal, 2018, 853, 6.	4.5	14
7	Time-dependent Electron Acceleration in Pulsar Wind Termination Shocks: Application to the 2011 April Crab Nebula Gamma-Ray Flare. Astrophysical Journal, 2018, 853, 16.	4.5	3
8	A New Two-fluid Radiation-hydrodynamical Model for X-Ray Pulsar Accretion Columns. Astrophysical Journal, 2017, 835, 129.	4.5	24
9	Dynamical and Radiative Properties of X-Ray Pulsar Accretion Columns: Phase-averaged Spectra. Astrophysical Journal, 2017, 835, 130.	4.5	21
10	A two-fluid model for black-hole accretion flows: particle acceleration and disc structure. Monthly Notices of the Royal Astronomical Society, 2017, 465, 1409-1442.	4.4	4
11	AN INTEGRATED MODEL FOR THE PRODUCTION OF X-RAY TIME LAGS AND QUIESCENT SPECTRA FROM HOMOGENEOUS AND INHOMOGENEOUS BLACK HOLE ACCRETION CORONAE. Astrophysical Journal, 2016, 821, 77.	4.5	3
12	A new model for the X-ray continuum of the magnetized accreting pulsars. Astronomy and Astrophysics, 2016, 591, A29.	5.1	48
13	THE NuSTAR X-RAY SPECTRUM OF HERCULES X-1: A RADIATION-DOMINATED RADIATIVE SHOCK. Astrophysical Journal, 2016, 831, 194.	4.5	38
14	TIME-DEPENDENT ELECTRON ACCELERATION IN BLAZAR TRANSIENTS: X-RAY TIME LAGS AND SPECTRAL FORMATION. Astrophysical Journal, 2016, 824, 108.	4.5	16
15	ELECTRON ACCELERATION IN PULSAR-WIND TERMINATION SHOCKS: AN APPLICATION TO THE CRAB NEBULA GAMMA-RAY FLARES. Astrophysical Journal, 2016, 833, 157.	4.5	14
16	STANDING SHOCK INSTABILITY IN ADVECTION-DOMINATED ACCRETION FLOWS. Astrophysical Journal, 2016, 819, 112.	4.5	13
17	FOURIER ANALYSIS OF BLAZAR VARIABILITY: KLEIN–NISHINA EFFECTS AND THE JET SCATTERING ENVIRONMENT. Astrophysical Journal, 2015, 809, 85.	4.5	18
18	THE TRANSIENT ACCRETING X-RAY PULSAR XTE J1946+274: STABILITY OF X-RAY PROPERTIES AT LOW FLUX AND UPDATED ORBITAL SOLUTION. Astrophysical Journal, 2015, 815, 44.	4.5	19

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19	A FOURIER-TRANSFORMED BREMSSTRAHLUNG FLASH MODEL FOR THE PRODUCTION OF X-RAY TIME LAGS IN ACCRETING BLACK HOLE SOURCES. Astrophysical Journal Letters, 2014, 785, L34.	8.3	4
20	FOURIER ANALYSIS OF BLAZAR VARIABILITY. Astrophysical Journal, 2014, 791, 21.	4.5	39
21	TeV blazar variability: the firehose instability?. Monthly Notices of the Royal Astronomical Society, 2012, 423, 1707-1710.	4.4	12
22	DIFFUSIVE PARTICLE ACCELERATION IN SHOCKED, VISCOUS ACCRETION DISKS: GREEN'S FUNCTION ENERGY DISTRIBUTION. Astrophysical Journal, 2011, 743, 47.	4.5	16
23	DYNAMICAL STRUCTURE OF VISCOUS ACCRETION DISKS WITH SHOCKS. Astrophysical Journal, 2009, 702, 649-659.	4.5	32
24	Infinite integrals of Whittaker and Bessel functions with respect to their indices. Journal of Mathematical Physics, 2009, 50, 123515.	1.1	8
25	Spectral formation in x-ray pulsars and associated identities involving the Laguerre polynomials. Journal of Mathematical Physics, 2008, 49, 033506.	1.1	0
26	Particle Acceleration and the Formation of Relativistic Outflows in Viscous Accretion Disks with Shocks. Astrophysical Journal, 2008, 677, L93-L96.	4.5	34
27	Particle Acceleration in Advectionâ€dominated Accretion Disks with Shocks: Green's Function Energy Distribution. Astrophysical Journal, 2007, 661, 416-429.	4.5	11
28	Thermal and Bulk Comptonization in Accretionâ€powered Xâ€Ray Pulsars. Astrophysical Journal, 2007, 654, 435-457.	4.5	203
29	Timeâ€dependent Stochastic Particle Acceleration in Astrophysical Plasmas: Exact Solutions Including Momentumâ€dependent Escape. Astrophysical Journal, 2006, 647, 539-551.	4.5	82
30	Further Constraints on Electron Acceleration in Solar Noise Storms. Solar Physics, 2006, 237, 185-200.	2.5	4
31	Spectral Formation in X-Ray Pulsar Accretion Columns. Astrophysical Journal, 2005, 621, L45-L48.	4.5	27
32	Restrictions on the Physical Prescription for the Viscosity in Advectionâ€dominated Accretion Disks. Astrophysical Journal, 2005, 622, 520-530.	4.5	11
33	Particle Acceleration and the Production of Relativistic Outflows in Advectionâ€dominated Accretion Disks with Shocks. Astrophysical Journal, 2005, 632, 476-498.	4.5	32
34	Exact solution for the hypergeometric Green's function describing spectral formation in x-ray pulsars. Journal of Mathematical Physics, 2005, 46, 053511.	1.1	1
35	Spectral Formation in Xâ€Ray Pulsars: Bulk Comptonization in the Accretion Shock. Astrophysical Journal, 2005, 630, 465-488.	4.5	43
36	Angular momentum transport in quasi-Keplerian accretion disks. Journal of Astrophysics and Astronomy, 2004, 25, 81-91.	1.0	1

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37	Noise-Storm Continua: Power Estimates for Electron Acceleration. Solar Physics, 2004, 225, 91-103.	2.5	12
38	On the integration of products of Whittaker functions with respect to the second index. Journal of Mathematical Physics, 2004, 45, 761-773.	1.1	12
39	A Self-consistent Model for the Formation of Relativistic Outflows in Advection-dominated Accretion Disks with Shocks. Astrophysical Journal, 2004, 617, L25-L28.	4.5	23
40	Inner Boundary Conditions for Advectionâ€dominated Accretion onto Black Holes. Astrophysical Journal, 2003, 588, 408-424.	4.5	25
41	Broad Redshifted Line as a Signature of Outflow. Astrophysical Journal, 2003, 598, 411-418.	4.5	23
42	Exact Expressions for the Critical Mach Numbers in the Twoâ€Fluid Model of Cosmicâ€Ray–modified Shocks. Astrophysical Journal, 2001, 546, 429-446.	4.5	47
43	Relativistic Outflows from Advectionâ€dominated Accretion Disks around Black Holes. Astrophysical Journal, 2001, 552, 209-220.	4.5	11
44	A new perturbative technique for solving integro-partial differential equations. Journal of Mathematical Physics, 1999, 40, 5224-5239.	1.1	1
45	Formation of Relativistic Outflows in Shearing Black Hole Accretion Coronae. Astrophysical Journal, 1999, 523, 203-222.	4.5	44
46	Dynamical Structure of Radiationâ€dominated Pulsar Accretion Shocks. Astrophysical Journal, 1998, 498, 790-801.	4.5	37
47	Normalization integrals of orthogonal Heun functions. Journal of Mathematical Physics, 1997, 38, 3692-3699.	1.1	7
48	lon Viscosity Mediated by Tangled Magnetic Fields: an Application to Black Hole Accretion Disks. Astrophysical Journal, 1996, 469, 784.	4.5	12
49	Implications of Gamma-Ray Transparency Constraints in Blazars: Minimum Distances and Gamma-Ray Collimation. Astrophysical Journal, 1995, 453, 83.	4.5	43
50	Relativistic Particle Transport in Hot Accretion Disks. International Astronomical Union Colloquium, 1994, 142, 949-953.	0.1	0
51	Stochastic particle acceleration in hot accretion disks. AIP Conference Proceedings, 1994, , .	0.4	0
52	Relativistic particle transport in hot accretion disks. Astrophysical Journal, Supplement Series, 1994, 90, 949.	7.7	3
53	First-order Fermi acceleration in spherically symmetric flows - Solutions including quadratic losses. Astrophysical Journal, 1992, 397, 88.	4.5	16
54	A self-consistent theory of photohydrodynamical shocks. Astrophysical Journal, 1988, 327, 772.	4.5	14

#	Article	IF	CITATIONS
55	Comptonization in supercritical winds. I - Spectral evolution. II - Dynamics and observational diagnostics. Astrophysical Journal, 1986, 310, 534.	4.5	11