Patrick Huber

List of Publications by Year
in descending order

53 papers	2,261 citations	394421 19 h-index	206112 48 g-index
58 all docs	58 docs citations	58 times ranked	1403 citing authors

#	Article	IF	Citations
1	Determination of antineutrino spectra from nuclear reactors. Physical Review C, 2011, 84, .	2.9	568
2	New features in the simulation of neutrino oscillation experiments with GLoBES 3.0. Computer Physics Communications, 2007, 177, 432-438.	7.5	461
3	First hint for CP violation in neutrino oscillations from upcoming superbeam and reactor experiments. Journal of High Energy Physics, 2009, 2009, 044-044.	4.7	128
4	Quantifying the sensitivity of oscillation experiments to the neutrino mass ordering. Journal of High Energy Physics, 2014, 2014, 1.	4.7	97
5	Review on Deep Neural Networks Applied to Low-Frequency NILM. Energies, 2021, 14, 2390.	3.1	62
6	Precision spectroscopy with reactor antineutrinos. Physical Review D, 2004, 70, .	4.7	60
7	Systematic uncertainties in long-baseline neutrino oscillations for large<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Î¸</mml:mi><mml:mn>13</mml:mn></mml:msub></mml:math>. Physical Review D, 2013, 87, .	4.7	51
8	NEOS Data and the Origin of the 5ÂMeV Bump in the Reactor Antineutrino Spectrum. Physical Review Letters, 2017, 118, 042502.	7.8	51
9	Hints for LeptonicCPViolation or New Physics?. Physical Review Letters, 2016, 117, 031801.	7.8	50
10	<i>Colloquium</i> : Neutrino detectors as tools for nuclear security. Reviews of Modern Physics, 2020, 92, .	45.6	42
11	Antineutrino Monitoring for Heavy Water Reactors. Physical Review Letters, 2014, 113, 042503.	7.8	41
12	Sterile neutrinos and the global reactor antineutrino dataset. Journal of High Energy Physics, 2021, 2021, 1.	4.7	33
13	Reactor antineutrino fluxes â€“ Status and challenges. Nuclear Physics B, 2016, 908, 268-278.	2.5	32
14	Optimization of the Neutrino Factory, revisited. Journal of High Energy Physics, 2011, 2011, 1.	4.7	31
15	Statistical significance of the sterile-neutrino hypothesis in the context of reactor and gallium data. Journal of High Energy Physics, 2022, 2022, .	4.7	27
16	Reevaluating reactor antineutrino anomalies with updated flux predictions. Physical Review D, 2020, 101, .	4.7	23
17	A low energy neutrino factory with non-magnetic detectors. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 669, 294-300.	4.1	22
18	Two experiments for the price of one? The role of the second oscillation maximum in long baseline neutrino experiments. Journal of High Energy Physics, 2011, 2011, 1.	4.7	21

#	Article	IF	Citations
19	Constraining sterile neutrinos with a low energy beta-beam. Journal of High Energy Physics, 2010, 2010, 1.	4.7	18
20	Neutron Capture and the Antineutrino Yield from Nuclear Reactors. Physical Review Letters, 2016, 116, 122503.	7.8	18
21	Statistical interpretation of sterile neutrino oscillation searches at reactors. European Physical Journal C, 2021, 81, 1.	3.9	17
22	Combining dark matter detectors and electron-capture sources to hunt for new physics in the neutrino sector. Journal of High Energy Physics, 2014, 2014, 1.	4.7	16
23	Reactor neutrino applications and coherent elastic neutrino nucleus scattering. Physical Review D, 2020, 102, .	4.7	16
24	Antineutrino Monitoring of Spent Nuclear Fuel. Physical Review Applied, 2017, 8, .	3.8	15
25	Submarine neutrino communication. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 692, 268-271.	4.1	14
26	Antineutrino Reactor Safeguards: A Case Study of the DPRK 1994 Nuclear Crisis. Science and Global Security, 2015, 23, 20-47.	0.3	14
27	Particle physics origin of the 5ÂMeV bump in the reactor antineutrino spectrum?. Physical Review D, 2019, 99, .	4.7	14
28	Observation of Reactor Antineutrinos with a Rapidly Deployable Surface-Level Detector. Physical Review Applied, 2020, 13, .	3.8	14
29	Grazing Incidence Small Angle X-ray Scattering on Colloidal Crystals. Journal of Physical Chemistry B, 2010, 114, 12473-12479.	2.6	13
30	LSND reloaded. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 696, 359-361.	4.1	13
31	Determining Reactor Fuel Type from Continuous Antineutrino Monitoring. Physical Review Applied, 2017, 8, .	3.8	11
32	Neutrino factory superbeam. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 655, 251-256.	4.1	10
33	Detection of Breeding Blankets Using Antineutrinos. Science and Global Security, 2016, 24, 114-130.	0.3	10
34	Residential Power Traces for Five Houses: The iHomeLab RAPT Dataset. Data, 2020, 5, 17.	2.3	8
35	A new approach to anti-neutrino running in long-baseline neutrino oscillation experiments. Journal of High Energy Physics, 2011, 2011, 1.	4.7	7
36	Potential measurement of the weak mixing angle with neutrino-electron scattering at low energy. Journal of High Energy Physics, 2011, 2011, 1.	4.7	7

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37	Neutrino-Based Tools for Nuclear Verification and Diplomacy in North Korea. Science and Global Security, 2019, 27, 15-28.	0.3	7
38	Interference between the atmospheric and solar oscillation amplitudes. Physical Review D, 2020, 101, .	4.7	7
39	Prediction of domestic appliances usage based on electrical consumption. Energy Informatics, 2018, 1, .	2.3	6
40	In Situ and Ex Situ SAXS Investigation of Colloidal Sedimentation onto Laterally Patterned Support. Langmuir, 2009, 25, 814-819.	3.5	5
41	Passive Low-Energy Nuclear-Recoil Detection with Color Centers. Physical Review Applied, 2021, 16, .	3.8	4
42	Use of CEvNS to monitor spent nuclear fuel. Physical Review D, 2022, 105, .	4.7	3
43	Cerium Ruthenium Low-Energy Antineutrino Measurements for Safeguarding Military Naval Reactors. Physical Review Letters, 2022, 128, .	7.8	3
44	Exploring neutrino parameters with a beta-beam experiment from FNAL to DUSEL. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 693, 114-121.	4.1	2
45	Demand response optimized heat pump control for service sector buildings. Computer Science - Research and Development, 2017, 32, 25-34.	2.7	2
46	Future searches for light sterile neutrinos at nuclear reactors. Physical Review D, 2022, 105, .	4.7	2
47	Neutrino oscillations at JUNO, the Born rule, and Sorkinâ€™s triple path interference. Physical Review D, 2022, 105, .	4.7	2
48	Neutrino physics for Korean diplomacy. Science, 2018, 362, 649-650.	12.6	1
49	Effect of Sampling Rate on Photovoltaic Self-Consumption in Load Shifting Simulations. Energies, 2020, 13, 5393.	3.1	1
50	Sterile neutrino searches at tagged kaon beams. Physical Review D, 2021, 103, .	4.7	1
51	Two experiments for the price of one? The role of the second oscillation maximum in long baseline neutrino experiments. , 2011, 2011, 1.		1
52	Messengers of new physics. Nuclear Physics, Section B, Proceedings Supplements, 2013, 237-238, 370-373.	0.4	0
53	Poster abstract: Is the run-time of domestic appliances predictable?. Computer Science - Research and Development, 2018, 33, 241-243.	2.7	0