Frederic P Schuller

List of Publications by Year
in descending order

27 papers	379 citations	759233 12 h-index	794594 19 g-index
27 all docs	27 docs citations	27 times ranked	138 citing authors

#	Article	IF	Citations
1	Geometry of physical dispersion relations. Physical Review D, 2011, 83, .	4.7	51
2	Born–Infeld Kinematics. Annals of Physics, 2002, 299, 174-207.	2.8	41
3	Causal structure and algebraic classification of non-dissipative linear optical media. Annals of Physics, 2010, 325, 1853-1883.	2.8	30
4	Area metric gravity and accelerating cosmology. Journal of High Energy Physics, 2007, 2007, 030-030.	4.7	26
5	Propagation of light in area metric backgrounds. Classical and Quantum Gravity, 2009, 26, 035024.	4.0	25
6	Cosmological constraints on a classical limit of quantum gravity. Physical Review D, 2005, 72, .	4.7	21
7	Pauli–Villars regularization and Born–Infeld kinematics. Classical and Quantum Gravity, 2003, 20, 4269-4284.	4.0	20
8	Born–Infeld kinematics and correction to the Thomas precession. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 540, 119-124.	4.1	17
9	Geometry of manifolds with area metric: Multi-metric backgrounds. Nuclear Physics B, 2006, 747, 398-422.	2.5	17
10	Radiation-dominated area metric cosmology. Journal of Cosmology and Astroparticle Physics, 2007, 2007, 013-013.	5.4	14
11	Geometric and energy-aware decomposition of the Navier–Stokes equations: A port-Hamiltonian approach. Physics of Fluids, 2021, 33, .	4.0	14
12	Gravitational dynamics for all tensorial spacetimes carrying predictive, interpretable, and quantizable matter. Physical Review D, 2012, 85, .	4.7	12
13	Port-Hamiltonian modeling of ideal fluid flow: Part I. Foundations and kinetic energy. Journal of Geometry and Physics, 2021, 164, 104201.	1.4	12
14	Quantization of general linear electrodynamics. Physical Review D, 2011, 83, .	4.7	11
15	Port-Hamiltonian modeling of ideal fluid flow: Part II. Compressible and incompressible flow. Journal of Geometry and Physics, 2021, 164, 104199.	1.4	11
16	Sectional curvature bounds in gravity: regularisation of the Schwarzschild singularity. Nuclear Physics B, 2004, 698, 319-334.	2.5	9
17	Brans–Dicke geometry. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 670, 161-164.	4.1	9
18	Classical limit of quantum gravity in an accelerating universe. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 612, 93-99.	4.1	8

#	Article	IF	Citations
19	Geometric obstruction of black holes. Annals of Physics, 2007, 322, 1335-1372.	2.8	7
20	Gravitational closure of matter field equations. Physical Review D, 2018, 97, .	4.7	7
21	Invariant length scale in relativistic kinematics: lessons from Dirichlet branes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 578, 402-408.	4.1	6
22	Etherington's Distance Duality with Birefringence. Universe, 2017, 3, 52.	2.5	5
23	Almost product manifolds as the low energy geometry ofÂDirichlet branes. European Physical Journal C, 2005, 39, 13-19.	3.9	3
24	Exterior and vector calculus views of incompressible Navier-Stokes port-Hamiltonian models. IFAC-PapersOnLine, 2021, 54, 173-179.	0.9	2
25	Product structure of heat phase space and branching Brownian motion. Annals of Physics, 2003, 308, 528-554.	2.8	1
26	ALMOST PRODUCT MANIFOLDS AS THE LOW ENERGY GEOMETRY OF DIRICHLET BRANES. , 2005, , .		0
27	Constructive gravity: Foundations and applications. , 2022, , .		0