

Alexander Bataller

List of Publications by Year in descending order

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15
papers

477
citations

1040056

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1058476

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times ranked

1051
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient Charge Transfer and Fine-Tuned Energy Level Alignment in a THF-Processed Fullerene-Free Organic Solar Cell with 11.3% Efficiency. <i>Advanced Materials</i> , 2017, 29, 1604241.	21.0	305
2	Room-Temperature Electron-Hole Liquid in Monolayer MoS ₂ . <i>ACS Nano</i> , 2019, 13, 10351-10358.	14.6	49
3	Nanosecond high-power dense microplasma switch for visible light. <i>Applied Physics Letters</i> , 2014, 105, 223501.	3.3	24
4	Blackbody Emission from Laser Breakdown in High-Pressure Gases. <i>Physical Review Letters</i> , 2014, 113, 075001.	7.8	19
5	Energy Balance for a Sonoluminescence Bubble Yields a Measure of Ionization Potential Lowering. <i>Physical Review Letters</i> , 2013, 111, 234301.	7.8	18
6	Collision Time Measurements in a Sonoluminescing Microplasma with a Large Plasma Parameter. <i>Physical Review Letters</i> , 2014, 113, 024301.	7.8	11
7	Observation of Shell Structure, Electronic Screening, and Energetic Limiting in Sparks. <i>Physical Review Letters</i> , 2016, 117, 085001.	7.8	10
8	Near Band-Edge Optical Excitation Leading to Catastrophic Ionization and Electron-Hole Liquid in Room-Temperature Monolayer MoS ₂ . <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1900223.	1.5	9
9	Rigid valence band shift due to molecular surface counter-doping of MoS ₂ . <i>Surface Science</i> , 2019, 679, 254-258.	1.9	9
10	Fermi liquid theory sheds light on hot electron-hole liquid in S_1L_1 . <i>Physical Review B</i> , 2021, 103, .	3.2	9
11	Timescales of excited state relaxation in S_1 observed by time-resolved two-photon photoemission spectroscopy. <i>Physical Review B</i> , 2021, 103, .	1.9	3
12	Comment on "Early stage time evolution of a dense nanosecond microdischarge used in fast optical switching applications" [Phys. Plasmas 22, 123518 (2015)]. <i>Physics of Plasmas</i> , 2016, 23, 034705.	1.9	3
13	Dynamics of strongly coupled two-component plasma via ultrafast spectroscopy. <i>Optics Letters</i> , 2019, 44, 5832.	3.3	3
14	Fundamental interactions in a classical Wigner system. <i>Physical Review E</i> , 2021, 104, L023202.	2.1	1
15	Comment on "Fluid modeling of a high-voltage nanosecond pulsed xenon microdischarge" [Phys. Plasmas 23, 073513 (2016)]. <i>Physics of Plasmas</i> , 2016, 23, 114701.	1.9	0