

Humberto A Carmona

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

33
papers

910
citations

13
h-index

30
g-index

35
ext. papers

975
ext. citations

2.7
avg, IF

3.5
L-index

#	Paper	IF	Citations
33	Flow through three-dimensional self-affine fractures. <i>Physical Review Fluids</i> , 2020 , 5,	2.8	2
32	Cracking urban mobility. <i>Physical Review Research</i> , 2020 , 2,	3.9	1
31	The light pollution as a surrogate for urban population of the US cities. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018 , 492, 1088-1096	3.3	11
30	Percolation on an isotropically directed lattice. <i>Physical Review E</i> , 2018 , 98,	2.4	5
29	Overdamped dynamics of particles with repulsive power-law interactions. <i>Physical Review E</i> , 2018 , 98,	2.4	9
28	Confined sandpile in two dimensions: Percolation and singular diffusion. <i>Physical Review E</i> , 2017 , 96, 052123	2.4	0
27	General continuum approach for dissipative systems of repulsive particles. <i>Physical Review E</i> , 2016 , 93, 060103	2.4	14
26	En route to multi-model scheme for clinker comminution with chemical grinding aids. <i>Advances in Applied Ceramics</i> , 2015 , 114, 393-401	2.3	11
25	Fragmentation processes in two-phase materials. <i>Physical Review E</i> , 2015 , 91, 012402	2.4	13
24	Singular diffusion in a confined sandpile. <i>Europhysics Letters</i> , 2015 , 109, 14007	1.6	2
23	From fracture to fragmentation: Discrete element modeling. <i>European Physical Journal: Special Topics</i> , 2014 , 223, 2369-2382	2.3	15
22	Scaling laws for impact fragmentation of spherical solids. <i>Physical Review E</i> , 2012 , 86, 016113	2.4	41
21	Fragmentation processes in impact of spheres. <i>Physical Review E</i> , 2008 , 77, 051302	2.4	88
20	Universality behind Basquin's Law of Fatigue. <i>Physical Review Letters</i> , 2008 , 100, 094301	7.4	107
19	Mechanisms in impact fragmentation. <i>International Journal of Fracture</i> , 2008 , 154, 105-117	2.3	51
18	Computer simulation of fatigue under diametrical compression. <i>Physical Review E</i> , 2007 , 75, 046115	2.4	23
17	Structural transitions in a classical two-dimensional molecule system. <i>Solid State Communications</i> , 2002 , 122, 665-669	1.6	3

16	Counterion correlations and attraction between like-charged macromolecules. <i>Physical Review E</i> , 2001 , 64, 011804	2.4	49
15	Scaling behavior in explosive fragmentation. <i>Physical Review E</i> , 2000 , 62, 4742-6	2.4	42
14	Photoluminescence spectroscopy of self-assembled InAs quantum dots in strong magnetic field and under high pressure. <i>Applied Physics Letters</i> , 1997 , 70, 505-507	3.4	62
13	Investigations of composite fermions in semiconductor nanostructures. <i>Journal of Physics Condensed Matter</i> , 1996 , 8, 3019-3032	1.8	1
12	Mesoscopic transport properties of composite fermions. <i>Surface Science</i> , 1996 , 361-362, 59-62	1.8	1
11	Two-dimensional electrons in a lateral magnetic superlattice. <i>Surface Science</i> , 1996 , 361-362, 328-332	1.8	4
10	Two-dimensional electrons in a magnetic superlattice. <i>Solid-State Electronics</i> , 1996 , 40, 217-220	1.7	3
9	Universal conductance fluctuations in a multi-subband quantum well. <i>Physica B: Condensed Matter</i> , 1995 , 211, 437-439	2.8	
8	Composite-fermion effective masses. <i>Physical Review B</i> , 1995 , 52, 11603-11606	3.3	44
7	Two dimensional electrons in a lateral magnetic superlattice. <i>Physical Review Letters</i> , 1995 , 74, 3009-3012	2.4	246
6	Universal conductance fluctuations in a multi-subband quantum well. <i>Journal of Physics Condensed Matter</i> , 1994 , 6, 5129-5136	1.8	2
5	Reflection of ballistic electrons from diffusive regions. <i>Physical Review B</i> , 1994 , 49, 2265-2268	3.3	13
4	Reflection of ballistic electrons by diffusive two-dimensional contacts. <i>Solid-State Electronics</i> , 1994 , 37, 1005-1009	1.7	2
3	Resonant tunnelling between edge states in mesoscopic wires. <i>Surface Science</i> , 1994 , 305, 624-628	1.8	10
2	Resistance fluctuations in the quantum Hall regime. <i>Physical Review B</i> , 1994 , 50, 4450-4455	3.3	30
1	Subband dispersions in semiconductor superlattices under in-plane magnetic fields. <i>Superlattices and Microstructures</i> , 1992 , 12, 337-340	2.8	3