

Ory Schnitzer

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

958
citations

471509

17
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501196

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61
all docs

61
docs citations

61
times ranked

734
citing authors

#	ARTICLE	IF	CITATIONS
1	Leidenfrost levitation of a spherical particle above a liquid bath: Evolution of the vapour-film morphology with particle size. <i>European Journal of Applied Mathematics</i> , 2022, 33, 1117-1169.	2.9	1
2	Plasmonic resonances of slender nanometallic rings. <i>Physical Review B</i> , 2022, 105, .	3.2	6
3	Absorption characteristics of large acoustic metasurfaces. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2022, 380, .	3.4	3
4	Isotropically active colloids under uniform force fields: from forced to spontaneous motion. <i>Journal of Fluid Mechanics</i> , 2021, 916, .	3.4	13
5	Asymptotic approximations for the plasmon resonances of nearly touching spheres. <i>European Journal of Applied Mathematics</i> , 2020, 31, 246-276.	2.9	7
6	Rolling of non-wetting droplets down a gently inclined plane. <i>Journal of Fluid Mechanics</i> , 2020, 903, .	3.4	5
7	Asymptotic modeling of Helmholtz resonators including thermoviscous effects. <i>Wave Motion</i> , 2020, 97, 102583.	2.0	5
8	Acoustic impedance of a cylindrical orifice. <i>Journal of Fluid Mechanics</i> , 2020, 892, .	3.4	10
9	Boundary-layer effects on electromagnetic and acoustic extraordinary transmission through narrow slits. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2020, 476, 20200444.	2.1	4
10	Spontaneous dynamics of two-dimensional Leidenfrost wheels. <i>Physical Review Fluids</i> , 2020, 5, .	2.5	4
11	Extraordinary transmission through a narrow slit. <i>Wave Motion</i> , 2019, 91, 102381.	2.0	9
12	Geometric quantization of localized surface plasmons. <i>IMA Journal of Applied Mathematics</i> , 2019, 84, 813-832.	1.6	5
13	Slender-body theory for plasmonic resonance. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2019, 475, 20190294.	2.1	8
14	Acoustics of bubbles trapped in microgrooves: From isolated subwavelength resonators to superhydrophobic metasurfaces. <i>Physical Review B</i> , 2019, 99, .	3.2	7
15	Asymptotic Modeling of Phononic Box Crystals. <i>SIAM Journal on Applied Mathematics</i> , 2019, 79, 506-524.	1.8	2
16	Stokes resistance of a solid cylinder near a superhydrophobic surface. Part 1. Grooves perpendicular to cylinder axis. <i>Journal of Fluid Mechanics</i> , 2019, 868, 212-243.	3.4	6
17	Speed of rolling droplets. <i>Physical Review Fluids</i> , 2019, 4, .	2.5	5
18	Pressure-driven plug flows between superhydrophobic surfaces of closely spaced circular bubbles. <i>Journal of Engineering Mathematics</i> , 2018, 111, 15-22.	1.2	6

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19	Small-solid-fraction approximations for the slip-length tensor of micropillared superhydrophobic surfaces. <i>Journal of Fluid Mechanics</i> , 2018, 843, 637-652.	3.4	8
20	Resistive-force theory for mesh-like superhydrophobic surfaces. <i>Physical Review Fluids</i> , 2018, 3, .	2.5	3
21	Slip length for longitudinal shear flow over an arbitrary-protrusion-angle bubble mattress: the small-solid-fraction singularity. <i>Journal of Fluid Mechanics</i> , 2017, 820, 580-603.	3.4	17
22	Spoof surface plasmons guided by narrow grooves. <i>Physical Review B</i> , 2017, 96, .	3.2	17
23	Waves in Slowly Varying Band-Gap Media. <i>SIAM Journal on Applied Mathematics</i> , 2017, 77, 1516-1535.	1.8	12
24	Bloch Waves in an Arbitrary Two-Dimensional Lattice of Subwavelength Dirichlet Scatterers. <i>SIAM Journal on Applied Mathematics</i> , 2017, 77, 2119-2135.	1.8	12
25	Asymptotic network models of subwavelength metamaterials formed by closely packed photonic and phononic crystals. <i>Europhysics Letters</i> , 2017, 119, 64002.	2.0	13
26	Radiation from Structured-Ring Resonators. <i>SIAM Journal on Applied Mathematics</i> , 2017, 77, 1047-1067.	1.8	3
27	Longitudinal pressure-driven flows between superhydrophobic grooved surfaces: Large effective slip in the narrow-channel limit. <i>Physical Review Fluids</i> , 2017, 2, .	2.5	11
28	Surface plasmon resonances of arbitrarily shaped nanometallic structures in the small-screening-length limit. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2016, 472, 20160258.	2.1	20
29	Streaming-potential phenomena in the thin-Debye-layer limit. Part 3. Shear-induced electroviscous repulsion. <i>Journal of Fluid Mechanics</i> , 2016, 786, 84-109.	3.4	9
30	Asymptotics of surface-plasmon redshift saturation at subnanometric separations. <i>Physical Review B</i> , 2016, 93, .	3.2	18
31	Singular effective slip length for longitudinal flow over a dense bubble mattress. <i>Physical Review Fluids</i> , 2016, 1, .	2.5	19
32	The Taylor-Melcher leaky dielectric model as a macroscale electrokinetic description. <i>Journal of Fluid Mechanics</i> , 2015, 773, 1-33.	3.4	89
33	Singular perturbations approach to localized surface-plasmon resonance: Nearly touching metal nanospheres. <i>Physical Review B</i> , 2015, 92, .	3.2	12
34	A generalized Derjaguin approximation for electrical-double-layer interactions at arbitrary separations. <i>Journal of Chemical Physics</i> , 2015, 142, 244102.	3.0	8
35	Ray-theory approach to electrical-double-layer interactions. <i>Physical Review E</i> , 2015, 91, 022307.	2.1	2
36	Osmotic self-propulsion of slender particles. <i>Physics of Fluids</i> , 2015, 27, 031701.	4.0	44

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37	Slender-body approximations for advection–diffusion problems. <i>Journal of Fluid Mechanics</i> , 2015, 768, .	3.4	6
38	Nonlinear electrophoresis at arbitrary field strengths: small-Dukhin-number analysis. <i>Physics of Fluids</i> , 2014, 26, .	4.0	50
39	Strong electro-osmotic flows about dielectric surfaces of zero surface charge. <i>Physical Review E</i> , 2014, 89, 043005.	2.1	21
40	Fast penetration of megagauss fields into metallic conductors. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	12
41	Nonlinear oscillations in an electrolyte solution under ac voltage. <i>Physical Review E</i> , 2014, 89, 032302.	2.1	16
42	Ratcheting of Brownian swimmers in periodically corrugated channels: A reduced Fokker-Planck approach. <i>Physical Review E</i> , 2014, 90, 032115.	2.1	23
43	Electrophoresis of bubbles. <i>Journal of Fluid Mechanics</i> , 2014, 753, 49-79.	3.4	32
44	Electrokinetic flows about conducting drops. <i>Journal of Fluid Mechanics</i> , 2013, 722, 394-423.	3.4	39
45	The electrophoretic mobility of rod-like particles. <i>Journal of Fluid Mechanics</i> , 2013, 719, .	3.4	7
46	Weakly nonlinear electrophoresis of a highly charged colloidal particle. <i>Physics of Fluids</i> , 2013, 25, .	4.0	55
47	Electrokinetic particle-electrode interactions at high frequencies. <i>Physical Review E</i> , 2013, 87, 012310.	2.1	6
48	Nonlinear electrokinetic flow about a polarized conducting drop. <i>Physical Review E</i> , 2013, 87, 041002.	2.1	10
49	Electric conductance of highly selective nanochannels. <i>Physical Review E</i> , 2013, 87, 054301.	2.1	10
50	Comment on “On the flow field about an electrophoretic particle” [<i>Phys. Fluids</i> 24, 102001 (2012)]. <i>Physics of Fluids</i> , 2013, 25, 049102.	4.0	2
51	Asymptotic analysis of double-carrier, space-charge-limited transport in organic light-emitting diodes. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2013, 469, 20130263.	2.1	2
52	Deformation of leaky-dielectric fluid globules under strong electric fields: boundary layers and jets at large Reynolds numbers. <i>Journal of Fluid Mechanics</i> , 2013, 734, .	3.4	2
53	Dielectric-solid polarization at strong fields: Breakdown of Smoluchowski's electrophoresis formula. <i>Physics of Fluids</i> , 2012, 24, .	4.0	28
54	Induced-charge electro-osmosis beyond weak fields. <i>Physical Review E</i> , 2012, 86, 061506.	2.1	49

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55	Macroscale description of electrokinetic flows at large zeta potentials: Nonlinear surface conduction. <i>Physical Review E</i> , 2012, 86, 021503.	2.1	68
56	Shear-induced Electrokinetic Lift at Large Péclet Numbers. <i>Mathematical Modelling of Natural Phenomena</i> , 2012, 7, 64-81.	2.4	7
57	Streaming-potential phenomena in the thin-Debye-layer limit. Part 2. Moderate Péclet numbers. <i>Journal of Fluid Mechanics</i> , 2012, 704, 109-136.	3.4	15
58	Strong-field electrophoresis. <i>Journal of Fluid Mechanics</i> , 2012, 701, 333-351.	3.4	30
59	Streaming-potential phenomena in the thin-Debye-layer limit. Part 1. General theory. <i>Journal of Fluid Mechanics</i> , 2011, 685, 306-334.	3.4	36
60	Irreversible Electrokinetic Repulsion at Zero-Reynolds-Number Sedimentation. <i>Physical Review Letters</i> , 2011, 107, 278301.	7.8	5