

Jacob Rubinstein

List of Publications by Year in descending order

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35
papers

725
citations

623734

14
h-index

526287

27
g-index

35
all docs

35
docs citations

35
times ranked

593
citing authors

#	ARTICLE	IF	CITATIONS
1	Flow in random porous media: mathematical formulation, variational principles, and rigorous bounds. <i>Journal of Fluid Mechanics</i> , 1989, 206, 25-46.	3.4	164
2	Neutrophil-to-lymphocyte ratio predicts progression and recurrence of non-muscle-invasive bladder cancer. <i>Urologic Oncology: Seminars and Original Investigations</i> , 2015, 33, 67.e1-67.e7.	1.6	78
3	Intensity control with a free-form lens. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2007, 24, 463.	1.5	64
4	Topology of the Order Parameter in the Little-Parks Experiment. <i>Physical Review Letters</i> , 1995, 75, 320-322.	7.8	45
5	Homotopy classification of minimizers of the Ginzburg-Landau energy and the existence of permanent currents. <i>Communications in Mathematical Physics</i> , 1996, 179, 257-263.	2.2	44
6	First-price auctions when the ranking of valuations is common knowledge. <i>Review of Economic Design</i> , 2001, 6, 461-480.	0.3	42
7	Supporting quadric method in optical design of freeform lenses for illumination control of a collimated light. <i>Advances in Applied Mathematics</i> , 2015, 62, 160-183.	0.7	34
8	On the Zero Set of the Wave Function in Superconductivity. <i>Communications in Mathematical Physics</i> , 1999, 202, 621-628.	2.2	26
9	Differential relations for the imaging coefficients of asymmetric systems. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2003, 20, 2365.	1.5	25
10	A variational principle in optics. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2004, 21, 2164.	1.5	25
11	The Resistive State in a Superconducting Wire: Bifurcation from the Normal State. <i>Archive for Rational Mechanics and Analysis</i> , 2010, 195, 117-158.	2.4	25
12	Evolution equations for stratified dilute suspensions. <i>Physics of Fluids A, Fluid Dynamics</i> , 1990, 2, 3-6.	1.6	23
13	Preoperative neutrophil to lymphocyte ratio improves recurrence prediction of non-muscle invasive bladder cancer. <i>BMC Urology</i> , 2018, 18, 90.	1.4	23
14	Ray mapping and illumination control. <i>Journal of Photonics for Energy</i> , 2013, 3, 035599.	1.3	14
15	A weighted least action principle for dispersive waves. <i>Annals of Physics</i> , 2005, 316, 271-284.	2.8	13
16	Wavelength adjustment using an eye model from aberrometry data. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2010, 27, 1561.	1.5	13
17	Geometrical optics and optimal transport. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2017, 34, 1817.	1.5	9
18	Phenotypic Models of CAR T-Cell Activation Elucidate the Pivotal Regulatory Role of CAR Downmodulation. <i>Molecular Cancer Therapeutics</i> , 2021, 20, 946-957.	4.1	8

#	ARTICLE	IF	CITATIONS
19	Formation of topological defects in thin superconducting rings. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 1997, 355, 1969-1978.	3.4	7
20	On the initial propagation of dental caries. Journal of the Royal Society Interface, 2014, 11, 20140809.	3.4	6
21	ON THE PROPAGATOR OF THE STOKES EQUATION AND A DYNAMICAL DEFINITION OF VISCOSITY. Chemical Engineering Communications, 1996, 148-150, 385-390.	2.6	5
22	The distance between homotopy classes of S 1-valued maps in multiply connected domains. Israel Journal of Mathematics, 2007, 160, 41-59.	0.8	5
23	Elliptic problems on networks with constrictions. Calculus of Variations and Partial Differential Equations, 2006, 26, 459-487.	1.7	4
24	A diffractive optical element for shaping arbitrary beams. Optical Review, 2008, 15, 140-142.	2.0	4
25	On the relation between power and astigmatism near an umbilic line. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2011, 28, 734.	1.5	4
26	On the geometry of visual starbursts. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2019, 36, B58.	1.5	4
27	The mathematical theory of multifocal lenses. Chinese Annals of Mathematics Series B, 2017, 38, 647-660.	0.4	3
28	On mesoscopic superconducting samples. , 2002, , .		3
29	Ray mappings and the weighted least action principle. Journal of Mathematics in Industry, 2018, 8, .	1.2	2
30	Catastrophe optics theory unveils the localised wave aberration features that generate ghost images. Ophthalmic and Physiological Optics, 0, , .	2.0	2
31	Professor Arie Leizarowitz, 1953â€“2010. Stochastic Models, 2011, 27, 1-1.	0.5	1
32	An L infinity/L 1-Constrained Quadratic Optimization Problem with Applications to Neural Networks. Applied Mathematics and Optimization, 2004, 49, 55-80.	1.6	0
33	Introduction: Superconductivity and the Ginzburgâ€“Landau model. Journal of Mathematical Physics, 2005, 46, 095101.	1.1	0
34	Expression of Semaphorin 3A in Malignant and Normal Bladder Tissue: Immunohistochemistry Staining and Morphometric Evaluation. Biology, 2021, 10, 109.	2.8	0
35	A flexible anatomical set of mechanical models for the organ of Corti. Royal Society Open Science, 2021, 8, 210016.	2.4	0