

Efi Efrati

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

1,783
citations

623734

14
h-index

501196

28
g-index

28
all docs

28
docs citations

28
times ranked

2031
citing authors

#	ARTICLE	IF	CITATIONS
1	Cumulative geometric frustration and superextensive energy scaling in a nonlinear classical XY-spin model. Physical Review E, 2022, 105, 024703.	2.1	5
2	Construction of exact minimal parking garages: nonlinear helical motifs in optimally packed lamellar structures. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2021, 477, 20200891.	2.1	2
3	Moving frames and compatibility conditions for three-dimensional director fields. New Journal of Physics, 2021, 23, 063016.	2.9	9
4	Cumulative geometric frustration in physical assemblies. Physical Review E, 2021, 104, 054601.	2.1	14
5	Predicting delayed instabilities in viscoelastic solids. Science Advances, 2020, 6, .	10.3	11
6	Geometric Frustration in Molecular Crystals. Israel Journal of Chemistry, 2020, 60, 1185-1189.	2.3	10
7	Crystals of Benzamide, the First Polymorphous Molecular Compound, Are Helicoidal. Angewandte Chemie, 2020, 132, 14701-14709.	2.0	9
8	Crystals of Benzamide, the First Polymorphous Molecular Compound, Are Helicoidal. Angewandte Chemie - International Edition, 2020, 59, 14593-14601.	13.8	15
9	Regular regimes of the harmonic three-mass system. Physical Review E, 2020, 101, 032211.	2.1	7
10	Why Are Some Crystals Straight?. Journal of Physical Chemistry C, 2020, 124, 15616-15624.	3.1	26
11	Curved Geometries from Planar Director Fields: Solving the Two-Dimensional Inverse Problem. Physical Review Letters, 2019, 123, 127801.	7.8	33
12	Twist renormalization in molecular crystals driven by geometric frustration. Soft Matter, 2019, 15, 116-126.	2.7	27
13	Inflating to shape. Nature Materials, 2019, 18, 2-3.	27.5	5
14	Self-Driven Fractional Rotational Diffusion of the Harmonic Three-Mass System. Physical Review Letters, 2019, 122, 024102.	7.8	13
15	Fundamental helical geometry consolidates the plant photosynthetic membrane. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 22366-22375.	7.1	42
16	Correction: Geometric frustration and compatibility conditions for two-dimensional director fields. Soft Matter, 2018, 14, 1068-1068.	2.7	1
17	Geometric frustration and compatibility conditions for two-dimensional director fields. Soft Matter, 2018, 14, 424-431.	2.7	30
18	Non-Euclidean Ribbons. Journal of Elasticity, 2015, 119, 251-261.	1.9	16

#	ARTICLE	IF	CITATIONS
19	Furrows in the wake of propagating d-cones. Nature Communications, 2015, 6, 7232.	12.8	9
20	Confined disclinations: Exterior versus material constraints in developable thin elastic sheets. Physical Review E, 2015, 91, 022404.	2.1	14
21	The metric description of elasticity in residually stressed soft materials. Soft Matter, 2013, 9, 8187.	2.7	51
22	Three-Dimensional Geometry of the Heinekeâ€™Mikulicz Strictureplasty. Inflammatory Bowel Diseases, 2013, 19, 704-711.	1.9	12
23	Hyperbolic non-Euclidean elastic strips and almost minimal surfaces. Physical Review E, 2011, 83, 046602.	2.1	22
24	Geometry and Mechanics in the Opening of Chiral Seed Pods. Science, 2011, 333, 1726-1730.	12.6	606
25	The mechanics of non-Euclidean plates. Soft Matter, 2010, 6, 5693.	2.7	148
26	Buckling transition and boundary layer in non-Euclidean plates. Physical Review E, 2009, 80, 016602.	2.1	74
27	Shaping of Elastic Sheets by Prescription of Non-Euclidean Metrics. Science, 2007, 315, 1116-1120.	12.6	524
28	Hydrodynamic Singularities and Clustering in a Freely Cooling Inelastic Gas. Physical Review Letters, 2005, 94, 088001.	7.8	48