

Veit Elser

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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.

80
papers

6,488
citations

33
h-index

80
g-index

86
ext. papers

7,112
ext. citations

6
avg, IF

6
L-index

#	Paper	IF	Citations
80	Crystal and quasicrystal structures in Al-Mn-Si alloys. <i>Physical Review Letters</i> , 1985 , 55, 2883-2886	7.4	778
79	Indexing problems in quasicrystal diffraction. <i>Physical Review B</i> , 1985 , 32, 4892-4898	3.3	686
78	Phase retrieval by iterated projections. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2003 , 20, 40-55	1.8	445
77	Biological imaging by soft x-ray diffraction microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 15343-6	11.5	441
76	Simple variational wave functions for two-dimensional Heisenberg spin-(1/2 antiferromagnets. <i>Physical Review Letters</i> , 1988 , 60, 2531-2534	7.4	438
75	Quasicrystal structure of (Al, Zn) ₄₉ Mg ₃₂ . <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1986 , 53, L59-L66		319
74	Electron ptychography of 2D materials to deep sub-ångström resolution. <i>Nature</i> , 2018 , 559, 343-349	50.4	269
73	Self-terminating diffraction gates femtosecond X-ray nanocrystallography measurements. <i>Nature Photonics</i> , 2012 , 6, 35-40	33.9	266
72	Nuclear antiferromagnetism in a registered ³ He solid. <i>Physical Review Letters</i> , 1989 , 62, 2405-2408	7.4	262
71	Hierarchical porous polymer scaffolds from block copolymers. <i>Science</i> , 2013 , 341, 530-4	33.3	214
70	Reconstruction algorithm for single-particle diffraction imaging experiments. <i>Physical Review E</i> , 2009 , 80, 026705	2.4	203
69	Time-resolved protein nanocrystallography using an X-ray free-electron laser. <i>Optics Express</i> , 2012 , 20, 2706-16	3.3	190
68	Numerical studies of antiferromagnetism on a Kagome net. <i>Physical Review B</i> , 1990 , 42, 8436-8444	3.3	189
67	Numerical studies of a 36-site kagome-acute antiferromagnet. <i>Physical Review B</i> , 1993 , 47, 5459-5462	3.3	151
66	Searching with iterated maps. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 418-23	11.5	122
65	Quantum dimer calculations on the spin-1/2 kagome-acute Heisenberg antiferromagnet. <i>Physical Review B</i> , 1995 , 51, 8318-8324	3.3	109
64	Sloppy-model universality class and the Vandermonde matrix. <i>Physical Review Letters</i> , 2006 , 97, 150601	7.4	82

63	Correlated insulating states at fractional fillings of moiré superlattices. <i>Nature</i> , 2020 , 587, 214-218	50.4	82
62	Solution of the crystallographic phase problem by iterated projections. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2003 , 59, 201-9		79
61	Ground state of a mobile vacancy in a quantum antiferromagnet: Small-cluster study. <i>Physical Review B</i> , 1990 , 41, 6715-6723	3.3	66
60	Reconstruction of an object from its symmetry-averaged diffraction pattern. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2008 , 64, 273-9		64
59	X-Ray Diffraction Microscopy. <i>Annual Review of Condensed Matter Physics</i> , 2010 , 1, 237-255	19.7	63
58	Long-range order in a three-dimensional random-tiling quasicrystal. <i>Physical Review B</i> , 1991 , 43, 3423-3433	3.3	59
57	Coherent diffraction of single Rice Dwarf virus particles using hard X-rays at the Linac Coherent Light Source. <i>Scientific Data</i> , 2016 , 3, 160064	8.2	53
56	Stability of the ferromagnetic state with respect to a single spin flip: Variational calculations for the U=∞. <i>Physical Review B</i> , 1990 , 41, 4842-4845	3.3	48
55	Dense Periodic Packings of Tetrahedra with Small Repeating Units. <i>Discrete and Computational Geometry</i> , 2010 , 44, 245-252	0.6	44
54	A Model of Quasicrystal Growth. <i>Physical Review Letters</i> , 1997 , 79, 1066-1069	7.4	40
53	Divide and conquer: a general approach to constraint satisfaction. <i>Physical Review E</i> , 2008 , 78, 036706	2.4	40
52	Kagome-acute spin-1/2 antiferromagnets in the hyperbolic plane. <i>Physical Review B</i> , 1993 , 48, 13647-13653	3.3	38
51	Real-Space x-ray tomographic reconstruction of randomly oriented objects with sparse data frames. <i>Optics Express</i> , 2014 , 22, 2403-13	3.3	37
50	: an implementation of the expand-maximize-compress algorithm for single-particle imaging. <i>Journal of Applied Crystallography</i> , 2016 , 49, 1320-1335	3.8	37
49	Energetics of point defects in the two-dimensional Wigner crystal. <i>Physical Review B</i> , 1991 , 43, 623-629	3.3	34
48	Solving structure with sparse, randomly-oriented x-ray data. <i>Optics Express</i> , 2012 , 20, 13129-37	3.3	33
47	Breaking the Crowther limit: combining depth-sectioning and tilt tomography for high-resolution, wide-field 3D reconstructions. <i>Ultramicroscopy</i> , 2014 , 140, 26-31	3.1	32
46	Formation pathways of mesoporous silica nanoparticles with dodecagonal tiling. <i>Nature Communications</i> , 2017 , 8, 252	17.4	31

45	Strategies for processing diffraction data from randomly oriented particles. <i>Ultramicroscopy</i> , 2011 , 111, 788-92	3.1	30
44	Ab initio based modeling of i-ALPdMn. <i>Physical Review B</i> , 2000 , 61, 9336-9344	3.3	27
43	Random projections and the optimization of an algorithm for phase retrieval. <i>Journal of Physics A</i> , 2003 , 36, 2995-3007		25
42	Strain accumulation in quasicrystalline solids. <i>Physical Review Letters</i> , 1988 , 61, 2774-2777	7.4	25
41	Direct phasing of nanocrystal diffraction. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2013 , 69, 559-69		23
40	Three-dimensional structure from intensity correlations. <i>New Journal of Physics</i> , 2011 , 13, 123014	2.9	22
39	Noise Limits on Reconstructing Diffraction Signals From Random Tomographs. <i>IEEE Transactions on Information Theory</i> , 2009 , 55, 4715-4722	2.8	21
38	Determination of crystallographic intensities from sparse data. <i>IUCrJ</i> , 2015 , 2, 29-34	4.7	20
37	Infinite Ud,Up ground state of the extended Hubbard model. <i>Physical Review B</i> , 1990 , 41, 2557-2559	3.3	20
36	Toward unsupervised single-shot diffractive imaging of heterogeneous particles using X-ray free-electron lasers. <i>Optics Express</i> , 2013 , 21, 28729-42	3.3	17
35	Benchmark Problems for Phase Retrieval. <i>SIAM Journal on Imaging Sciences</i> , 2018 , 11, 2429-2455	1.9	15
34	Upper Bound on the Packing Density of Regular Tetrahedra and Octahedra. <i>Discrete and Computational Geometry</i> , 2011 , 46, 799-818	0.6	13
33	Recovering magnetization distributions from their noisy diffraction data. <i>Physical Review E</i> , 2010 , 82, 061128	2.4	13
32	Deconstructing the energy landscape: constraint-based algorithms for folding heteropolymers. <i>Physical Review E</i> , 2006 , 73, 026702	2.4	12
31	X-ray phase determination by the principle of minimum charge. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 1999 , 55, 489-499		12
30	Indivisibility of Electron Bubbles in Helium. <i>Journal of Low Temperature Physics</i> , 2001 , 123, 7-23	1.3	11
29	Spinning "snowballs" in superfluid 4He. <i>Physical Review Letters</i> , 1988 , 61, 177-179	7.4	11
28	Method for dense packing discovery. <i>Physical Review E</i> , 2010 , 82, 056707	2.4	10

27	Equations of motion for superfluids. <i>Physical Review E</i> , 1995 , 51, 5688-5694	2.4	10
26	Solving protein structure from sparse serial microcrystal diffraction data at a storage-ring synchrotron source. <i>IUCrJ</i> , 2018 , 5, 548-558	4.7	10
25	Matrix product constraints by projection methods. <i>Journal of Global Optimization</i> , 2017 , 68, 329-355	1.5	9
24	Charge-order-enhanced capacitance in semiconductor moiré superlattices. <i>Nature Nanotechnology</i> , 2021 , 16, 1068-1072	28.7	9
23	The Complexity of Bit Retrieval. <i>IEEE Transactions on Information Theory</i> , 2018 , 64, 412-428	2.8	8
22	Phonon contribution to the entropy of hard-sphere crystals. <i>Physical Review E</i> , 2014 , 89, 052404	2.4	8
21	A model for the pseudorotation of cycloheptane. <i>Chemical Physics Letters</i> , 1983 , 96, 276-278	2.5	8
20	High resolution electron microscopy of Al-Cu-Fe quasicrystals: Atomic structure and modeling. <i>Journal of Materials Research</i> , 1993 , 8, 24-37	2.5	7
19	Protein crystal structure from non-oriented, single-axis sparse X-ray data. <i>IUCrJ</i> , 2016 , 3, 43-50	4.7	6
18	Quasicrystalline minimal surfaces. <i>Physical Review B</i> , 1994 , 49, 9977-9980	3.3	6
17	Exotic Self-trapped States of an Electron in Superfluid Helium. <i>Journal of Low Temperature Physics</i> , 2015 , 180, 363-376	1.3	4
16	Dynamics of immersed molecules in superfluids. <i>Journal of Chemical Physics</i> , 2002 , 117, 3878-3885	3.9	4
15	Colliding waves on a relativistic string. <i>American Journal of Physics</i> , 1992 , 60, 726-732	0.7	4
14	An enhanced formulation for solving graph coloring problems with the Douglas-Bachford algorithm. <i>Journal of Global Optimization</i> , 2020 , 77, 383-403	1.5	3
13	Compressed Sensing, Sparsity, and the Reliability of Tomographic Reconstructions. <i>Microscopy and Microanalysis</i> , 2014 , 20, 796-797	0.5	3
12	Reconstructing three-dimensional protein crystal intensities from sparse unoriented two-axis X-ray diffraction patterns. <i>Journal of Applied Crystallography</i> , 2017 , 50, 985-993	3.8	3
11	The Mermin Fixed Point. <i>Foundations of Physics</i> , 2003 , 33, 1691-1698	1.2	3
10	Thermal evolution of spin-polarons. <i>Physical Review Letters</i> , 1995 , 75, 4083-4085	7.4	3

9	Breaking the Rayleigh Limit in Thick Samples with Multi-slice Ptychography. <i>Microscopy and Microanalysis</i> , 2018 , 24, 192-193	0.5	3
8	Laminating Lattices with Symmetrical Glue. <i>Discrete and Computational Geometry</i> , 2010 , 43, 363-374	0.6	2
7	Learning without loss 2021 , 2021,		2
6	Phase Imaging beyond the Diffraction Limit with Electron Ptychography. <i>Microscopy and Microanalysis</i> , 2019 , 25, 6-7	0.5	1
5	Theory and Practice of Diffractometry on Single Tungsten Atoms using Electron Microscope Pixel Array Detectors. <i>Microscopy and Microanalysis</i> , 2017 , 23, 444-445	0.5	1
4	Reconstructing cellular automata rules from observations at nonconsecutive times. <i>Physical Review E</i> , 2021 , 104, 034301	2.4	0
3	Enhanced Resolution from Full-Field Ptychography with an Electron Microscope Pixel Array Detector. <i>Microscopy and Microanalysis</i> , 2017 , 23, 438-439	0.5	
2	Quantitative Structural Analysis of Fuel Cell Catalysts and Carbon Supports by TEM and Cryo-STEM Tomography. <i>Microscopy and Microanalysis</i> , 2015 , 21, 799-800	0.5	
1	Quantitative Information from Cryo Electron Tomography of Energy Materials. <i>Microscopy and Microanalysis</i> , 2016 , 22, 1284-1285	0.5	