

Hans Engelkamp

List of Publications by Year in descending order

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62
papers

4,103
citations

136950

32
h-index

128289

60
g-index

66
all docs

66
docs citations

66
times ranked

5706
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-Assembly of Disk-Shaped Molecules to Coiled-Coil Aggregates with Tunable Helicity. <i>Science</i> , 1999, 284, 785-788.	12.6	728
2	A virus-based single-enzyme nanoreactor. <i>Nature Nanotechnology</i> , 2007, 2, 635-639.	31.5	406
3	Macroscopic Hierarchical Surface Patterning of Porphyrin Trimers via Self-Assembly and Dewetting. <i>Science</i> , 2006, 314, 1433-1436.	12.6	311
4	Selection of supramolecular chirality by application of rotational and magnetic forces. <i>Nature Chemistry</i> , 2012, 4, 201-207.	13.6	221
5	Molecular materials based on crown ether functionalized phthalocyanines. <i>Journal of Porphyrins and Phthalocyanines</i> , 2000, 04, 454-459.	0.8	201
6	Photochemical Surface Patterning by the Thiol-Ene Reaction. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 4421-4424.	13.8	179
7	Direct Visualization of Efficient Energy Transfer in Single Oligo(p-phenylene vinylene) Vesicles. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 1232-1236.	13.8	133
8	Binding Features of Molecular Clips. Separation of the Effects of Hydrogen Bonding and π - π Interactions. <i>Journal of the American Chemical Society</i> , 1997, 119, 9956-9964.	13.7	127
9	Shaping polymersomes into predictable morphologies via out-of-equilibrium self-assembly. <i>Nature Communications</i> , 2016, 7, 12606.	12.8	127
10	A virus-based biocatalyst. <i>Nature Nanotechnology</i> , 2007, 2, 226-229.	31.5	115
11	One-way transparency of four-coloured spin-wave excitations in multiferroic materials. <i>Nature Communications</i> , 2014, 5, 3203.	12.8	94
12	Self-Assembly and Manipulation of Crown Ether Phthalocyanines at the Gel-Graphite Interface. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 2348-2350.	13.8	85
13	Molecular materials based on crown ether functionalized phthalocyanines. <i>Journal of Porphyrins and Phthalocyanines</i> , 2000, 4, 454-459.	0.8	83
14	Synthesis and single enzyme activity of a clicked lipase-BSA hetero-dimer. <i>Chemical Communications</i> , 2006, , 2012-2014.	4.1	73
15	The enzyme mechanism of nitrite reductase studied at single-molecule level. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 3250-3255.	7.1	70
16	An unforeseen polymorph of coronene by the application of magnetic fields during crystal growth. <i>Nature Communications</i> , 2016, 7, 11555.	12.8	68
17	Do enzymes sleep and work?. <i>Chemical Communications</i> , 2006, , 935.	4.1	66
18	Control of Surface Plasmon Localization via Self-Assembly of Silver Nanoparticles along Silver Nanowires. <i>Journal of the American Chemical Society</i> , 2008, 130, 17240-17241.	13.7	61

#	ARTICLE	IF	CITATIONS
19	Spin-Stretching Modes in Anisotropic Magnets: Spin-Wave Excitations in the Multiferroic $\text{Ba}_2\text{CoGe}_7\text{O}_{27}$. Physical Review Letters, 2010, 100, 257200.	7.8	60
20	Terahertz Spectroscopy of Spin Waves in Multiferroic BiFeO_3 in High Magnetic Fields. Physical Review Letters, 2013, 110, 257201.	7.8	60
21	Dynamic Disorder in Single-Enzyme Experiments: Facts and Artifacts. ACS Nano, 2012, 6, 346-354.	14.6	55
22	Preparation of Biomolecule Microstructures and Microarrays by Thiol-ene Photoimmobilization. ChemBioChem, 2010, 11, 235-247.	2.6	50
23	Si:P as a laboratory analogue for hydrogen on high magnetic field white dwarf stars. Nature Communications, 2013, 4, 1469.	12.8	50
24	Observation of Magnetoplasmons in Bi_2Se_3 Topological Insulator. ACS Photonics, 2015, 2, 1231-1235.	6.6	48
25	Single-Biomolecule Kinetics: The Art of Studying a Single Enzyme. Annual Review of Analytical Chemistry, 2010, 3, 319-340.	5.4	47
26	Shish kebab-like chirality. Chemical Communications, 1998, , 979-980.	4.1	38
27	Conformational Behavior and Binding Properties of Naphthalene-Walled Clips. Chemistry - A European Journal, 1998, 4, 716-722.	3.3	37
28	Self-Organization of Semiconducting Polysiloxane-Phthalocyanine on a Graphite Surface. Advanced Materials, 2005, 17, 1265-1268.	21.0	37
29	From confined spinons to emergent fermions: Observation of elementary magnetic excitations in a transverse-field Ising chain. Physical Review B, 2016, 94, 040401.	3.2	35
30	Compositional evolution of Bi-induced acceptor states in GaAs. Physical Review B, 2013, 87, 040401.	3.2	27
31	Nanoscale Study of Polymer Dynamics. ACS Nano, 2016, 10, 1434-1441.	14.6	31
32	Stiffness versus architecture of single helical polyisocyanopeptides. Chemical Science, 2013, 4, 2357.	7.4	28
33	Observation of an intersublattice exchange magnon in CoCr_2O_4 and analysis of magnetic ordering. Physical Review B, 2013, 87, 040401.	3.2	27
34	Magnetic Stiffening in 3D Cell Culture Matrices. Nano Letters, 2021, 21, 6740-6747.	9.1	23
35	Biofabrication of a Functional Tubular Construct from Tissue Spheroids Using Magnetoacoustic Levitational Directed Assembly. Advanced Healthcare Materials, 2020, 9, e2000721.	7.6	19
36	Effects of Bi incorporation on the electronic properties of GaAs: Carrier masses, hole mobility, and Bi-induced acceptor states. Physica Status Solidi (B): Basic Research, 2013, 250, 779-786.	1.5	18

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37	Scaffold-free and label-free biofabrication technology using levitational assembly in a high magnetic field. <i>Biofabrication</i> , 2020, 12, 045022.	7.1	16
38	Alignment of Phthalocyanine molecular aggregates by magnetic fields. <i>Physica B: Condensed Matter</i> , 2001, 294-295, 343-346.	2.7	15
39	A THz spectrometer combining the free electron laser FLARE with 33 T magnetic fields. <i>Applied Physics Letters</i> , 2017, 110, 094106.	3.3	14
40	The High Field Magnet Laboratory at Radboud University Nijmegen. <i>Journal of Low Temperature Physics</i> , 2010, 159, 389-393.	1.4	13
41	Colloidal Stability of Aqueous Ferrofluids at 10 T. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 5908-5912.	4.6	13
42	Radii of Rydberg states of isolated silicon donors. <i>Physical Review B</i> , 2018, 98, .	3.2	12
43	Magnetic Fields as an Investigation Technique and Manipulation Tool for Phthalocyanine Molecular Aggregates. <i>Advanced Functional Materials</i> , 2004, 14, 261-265.	14.9	10
44	Magnetic resonances of multiferroic $TbFe_{0.23}Mn_{0.77}$. <i>Physical Review B</i> , 2017, 95, .	3.2	10
45	Confining Potential as a Function of Polymer Stiffness and Concentration in Entangled Polymer Solutions. <i>Journal of Physical Chemistry B</i> , 2017, 121, 5613-5620.	2.6	10
46	Phase-transition-induced jumping, bending, and wriggling of single crystal nanofibers of coronene. <i>Scientific Reports</i> , 2021, 11, 3175.	3.3	10
47	Chiral basket-shaped host compounds derived from diphenylglycoluril. <i>Recueil Des Travaux Chimiques Des Pays-Bas</i> , 1995, 114, 65-71.	0.0	9
48	Magnetic Sedimentation Velocities and Equilibria in Dilute Aqueous Ferrofluids. <i>Journal of Physical Chemistry B</i> , 2020, 124, 7989-7998.	2.6	6
49	Magnetoelastic distortion of multiferroic $BiFeO_3$ in the canted antiferromagnetic state. <i>Physical Review B</i> , 2020, 102, .	3.2	6
50	High-field impurity magneto-optics of Si:Se. <i>Physical Review B</i> , 2014, 90, .	3.2	5
51	Synthesis and Magnetic Properties of Two-Step Coordination Schiff Base Clusters. <i>European Journal of Inorganic Chemistry</i> , 2021, 2021, 2611-2617.	2.0	4
52	Massive Magnetostriction of the Paramagnetic Insulator $KEr(MoO_4)_2$ via a Single-Ion Effect. <i>Advanced Electronic Materials</i> , 2022, 8, .	5.1	4
53	Interaction of electronic excitations of Tm^{3+} ions with acoustic vibrations in $KTm(MoO_4)_2$. <i>Physical Review B</i> , 2014, 89, .	3.2	3
54	The quadratic Zeeman effect used for state-radius determination in neutral donors and donor bound excitons in Si:P. <i>Semiconductor Science and Technology</i> , 2016, 31, 045007.	2.0	3

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55	Magnetoquantum Oscillations at THz Frequencies in InSb. <i>Physical Review Letters</i> , 2017, 119, 146603.	7.8	3
56	Higher-order Zeeman effect of Mg-related donor complexes in silicon. <i>Physical Review B</i> , 2020, 102, .	3.2	3
57	Magnetic anisotropy of individually addressed spin states. <i>Physical Review Research</i> , 2021, 3, .	3.6	2
58	Nonlinear terahertz transmission spectroscopy on Ga-doped germanium in high magnetic fields. <i>Physical Review B</i> , 2022, 105, .	3.2	2
59	Inside Front Cover: Self-Organization of Semiconducting Polysiloxane-Phthalocyanine on a Graphite Surface (<i>Adv. Mater.</i> 10/2005). <i>Advanced Materials</i> , 2005, 17, NA-NA.	21.0	0
60	Non-linear spin lattice dynamic in $KR(\text{MoO}_4)_2$, 2014, , .		0
61	Design of THz setup in the restricted geometry available in high-field magnets. , 2016, , .		0
62	THz Pump-Probe Setup for Experiments in High Magnetic Fields. , 2018, , .		0