

Andreas Htten

List of Publications by Citations

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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.

75
papers

1,836
citations

19
h-index

41
g-index

82
ext. papers

2,046
ext. citations

4.6
avg, IF

4.63
L-index

#	Paper	IF	Citations
75	Spin polarization in half-metals probed by femtosecond spin excitation. <i>Nature Materials</i> , 2009 , 8, 56-61	27	196
74	New magnetic nanoparticles for biotechnology. <i>Journal of Biotechnology</i> , 2004 , 112, 47-63	3.7	125
73	The homogeneous ice nucleation rate of water droplets produced in a microfluidic device and the role of temperature uncertainty. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 5873-87	3.6	108
72	Ferromagnetic FeCo nanoparticles for biotechnology. <i>Journal of Magnetism and Magnetic Materials</i> , 2005 , 293, 93-101	2.8	102
71	Giant Magnetoresistance: Basic Concepts, Microstructure, Magnetic Interactions and Applications. <i>Sensors</i> , 2016 , 16,	3.8	85
70	Stability and thermal reaction of GMR NiFe/Cu thin films. <i>Acta Materialia</i> , 2005 , 53, 3383-3393	8.4	53
69	Review and outlook: from single nanoparticles to self-assembled monolayers and granular GMR sensors. <i>Beilstein Journal of Nanotechnology</i> , 2010 , 1, 75-93	3	51
68	Novel carbon nanosheets as support for ultrahigh-resolution structural analysis of nanoparticles. <i>Ultramicroscopy</i> , 2008 , 108, 885-92	3.1	50
67	Heusler nanoparticles for spintronics and ferromagnetic shape memory alloys. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2014 , 32, 020802	1.3	35
66	Magnetic field induced assembly of highly ordered two-dimensional particle arrays. <i>Langmuir</i> , 2010 , 26, 19225-9	4	35
65	Synthesis and characterization of photoswitchable fluorescent SiO ₂ nanoparticles. <i>Chemistry - A European Journal</i> , 2012 , 18, 814-21	4.8	31
64	Experimental realization of a semiconducting full-Heusler compound: Fe ₂ TiSi. <i>Physical Review B</i> , 2014 , 90,	3.3	26
63	Reliable stabilization and functionalization of nanoparticles through tridentate thiolate ligands. <i>Chemical Communications</i> , 2006 , 3693-5	5.8	24
62	Magnetic Properties of Electrospun Magnetic Nanofiber Mats after Stabilization and Carbonization. <i>Materials</i> , 2020 , 13,	3.5	23
61	Circular dichroism and electron microscopy studies in vitro of 33-mer gliadin peptide revealed secondary structure transition and supramolecular organization. <i>Biopolymers</i> , 2014 , 101, 96-106	2.2	22
60	Natural and synthetic nanopores directing osteogenic differentiation of human stem cells. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2019 , 17, 319-328	6	22
59	Large supramolecular structures of 33-mer gliadin peptide activate toll-like receptors in macrophages. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018 , 14, 1417-1427	6	21

58	Interaction of adult human neural crest-derived stem cells with a nanoporous titanium surface is sufficient to induce their osteogenic differentiation. <i>Stem Cell Research</i> , 2014 , 13, 98-110	1.6	19
57	Inverted spin polarization of Heusler alloys for spintronic devices. <i>Applied Physics Letters</i> , 2006 , 89, 012502	1.4	19
56	Ultrahigh Ionic Exclusion through Carbon Nanomembranes. <i>Advanced Materials</i> , 2020 , 32, e1907850	2.4	17
55	Quantitative separation of the anisotropic magnetothermopower and planar Nernst effect by the rotation of an in-plane thermal gradient. <i>Scientific Reports</i> , 2017 , 7, 40586	4.9	17
54	Thickness dependent exchange bias in martensitic epitaxial Ni-Mn-Sn thin films. <i>AIP Advances</i> , 2013 , 3, 122112	1.5	17
53	Nano-antenna-assisted harmonic generation. <i>Applied Physics B: Lasers and Optics</i> , 2013 , 113, 75-79	1.9	16
52	Self-ordering of nanoparticles in magneto-organic composite films. <i>Physical Review B</i> , 2008 , 78,	3.3	15
51	Giant magnetoresistance and magnetic aspects in granular structures. <i>Journal of Magnetism and Magnetic Materials</i> , 2003 , 262, 23-31	2.8	15
50	Chemical and Morphological Transition of Poly(acrylonitrile)/Poly(vinylidene Fluoride) Blend Nanofibers during Oxidative Stabilization and Incipient Carbonization. <i>Nanomaterials</i> , 2020 , 10,	5.4	14
49	Proximity-Induced Superconductivity and Quantum Interference in Topological Crystalline Insulator SnTe Thin-Film Devices. <i>Nano Letters</i> , 2018 , 18, 1264-1268	11.5	14
48	Continuous-flow particle guiding based on dipolar coupled magnetic superstructures in rotating magnetic fields. <i>Lab on A Chip</i> , 2013 , 13, 920-7	7.2	14
47	Microstructural investigation of ternary alloyed magnetic nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2005 , 293, 151-161	2.8	11
46	Bone Regeneration: A Novel Osteoinductive Function of Spongostan by the Interplay between Its Nano- and Microtopography. <i>Cells</i> , 2020 , 9,	7.9	10
45	Nano-antennae assisted emission of extreme ultraviolet radiation. <i>Annalen Der Physik</i> , 2014 , 526, 119-134	3.6	10
44	Lab-on-a-Chip Magneto-Immunoassays: How to Ensure Contact between Superparamagnetic Beads and the Sensor Surface. <i>Biosensors</i> , 2013 , 3, 327-40	5.9	10
43	Self organization of magnetic nanoparticles: A polarized grazing incidence small angle neutron scattering and grazing incidence small angle x-ray scattering study. <i>Journal of Applied Physics</i> , 2011 , 110, 102207	2.5	10
42	On the direct employment of dipolar particle interaction in microfluidic systems. <i>Microfluidics and Nanofluidics</i> , 2012 , 13, 543-554	2.8	9
41	Influence of the synthetic polypeptide c25-mms6 on cobalt ferrite nanoparticle formation. <i>Journal of Nanoparticle Research</i> , 2012 , 14, 1	2.3	9

40	Processing, structure, and property relationships in Nd-Fe-B magnets. <i>Jom</i> , 1992 , 44, 11-15	2.1	9
39	Extremely robust photocurrent generation of titanium dioxide photoanodes bio-sensitized with recombinant microalgal light-harvesting proteins. <i>Scientific Reports</i> , 2019 , 9, 2109	4.9	9
38	From nanoscale liquid spheres to anisotropic crystalline particles of tin: decomposition of decamethylstannocene in organic solvents. <i>Small</i> , 2011 , 7, 3075-86	11	8
37	The Therapeutic Effect of 1,8-Cineol on Pathogenic Bacteria Species Present in Chronic Rhinosinusitis. <i>Frontiers in Microbiology</i> , 2019 , 10, 2325	5.7	7
36	Magnetic nanoparticles meet microfluidics. <i>Materials Today: Proceedings</i> , 2017 , 4, S160-S167	1.4	7
35	Stabilization and Carbonization of PAN Nanofiber Mats Electrospun on Metal Substrates. <i>Journal of Carbon Research</i> , 2021 , 7, 12	3.3	7
34	Modeling of nanoparticulate magneto-resistive systems and the impact on molecular recognition. <i>Sensors</i> , 2015 , 15, 9251-64	3.8	6
33	Preparation of Terpenoid-Invasomes with Selective Activity against and Characterization by Cryo Transmission Electron Microscopy. <i>Biomedicines</i> , 2020 , 8,	4.8	6
32	Interfacial Thermal Resistance in Magnetocaloric Epoxy-Bonded La-Fe-Co-Si Composites. <i>Energy Technology</i> , 2018 , 6, 1448-1452	3.5	6
31	Coupling Phenomena in Magnetocaloric Materials. <i>Energy Technology</i> , 2018 , 6, 1429-1447	3.5	6
30	Oriented attachment explains cobalt ferrite nanoparticle growth in bioinspired syntheses. <i>Beilstein Journal of Nanotechnology</i> , 2014 , 5, 210-8	3	6
29	Positioning and Aligning Electrospun PAN Fibers by Conductive and Dielectric Substrate Patterns. <i>Macromolecular Symposia</i> , 2021 , 395, 2000213	0.8	6
28	Interplay of strain and interdiffusion in Heusler alloy bilayers. <i>Physica Status Solidi - Rapid Research Letters</i> , 2015 , 9, 321-325	2.5	5
27	X-Ray Absorption and Magnetic Circular Dichroism Studies of Co ₂ FeAl in Magnetic Tunnel Junctions. <i>IEEE Transactions on Magnetics</i> , 2010 , 46, 1925-1928	2	5
26	Electromagnetic Interference Shielding with Electrospun Nanofiber Mats: A Review of Production, Physical Properties and Performance. <i>Fibers</i> , 2022 , 10, 47	3.7	5
25	Ionic Additives and Weak Magnetic Fields in the Thermal Decomposition of Octacarbonyldicobalt: Tools To Control the Morphology of Cobalt Nanoparticles. <i>European Journal of Inorganic Chemistry</i> , 2012 , 2012, 198-202	2.3	4
24	Uniform growth of clusters of magnetic nanoparticles in a rotating magnetic field. <i>Journal of Nanoparticle Research</i> , 2012 , 14, 1	2.3	4
23	Identification of Microorganisms from Several Surfaces by MALDI-TOF MS: Is Leading in Biofilm Formation. <i>Microorganisms</i> , 2021 , 9,	4.9	4

22	Thickness-Dependent Permanent Magnet Properties of $Zr_{\{2\}}Co_{\{11\}}$ Thin Films Grown on Si with Pt Underlayer. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017 , 48, 2654-2659	2.3	3
21	Magnetic Tracking of Protein Synthesis in Microfluidic Environments-Challenges and Perspectives. <i>Nanomaterials</i> , 2019 , 9,	5.4	3
20	How to enable bulk-like martensitic transformation in epitaxial films. <i>AIP Advances</i> , 2017 , 7, 056428	1.5	3
19	DNA-Mediated Stabilization of Self-Assembling Bead Monolayers for Microfluidic Applications. <i>Particle and Particle Systems Characterization</i> , 2015 , 32, 583-587	3.1	3
18	Co $\text{\$}_2\text{\$}FeSi$ Based Magnetic Tunnel Junctions With BaO Barrier. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 3825-3828	2	3
17	Mismatch-induced recrystallization of giant magneto-resistance multilayer systems. <i>Applied Physics Letters</i> , 2006 , 88, 023120	3.4	3
16	Analysis of Monodispersed FeCo Alloyed Nanoparticles by High-Resolution Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2003 , 9, 196-197	0.5	3
15	Demagnetization experiments on frozen ferrofluids. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2004 , 1, 3596-3602		3
14	Pepsin Digest of Gliadin Forms Spontaneously Amyloid-Like Nanostructures Influencing the Expression of Selected Pro-Inflammatory, Chemoattractant, and Apoptotic Genes in Caco-2 Cells: Implications for Gluten-Related Disorders. <i>Molecular Nutrition and Food Research</i> , 2021 , 65, e2100200	5.9	3
13	Gadolinium thin films as benchmark for magneto-caloric thin films. <i>AIP Advances</i> , 2017 , 7, 056429	1.5	2
12	Magnetic Tunnel Junctions. <i>Springer Tracts in Modern Physics</i> , 2008 , 291-333	0.1	2
11	Chemical and Magnetic Interface Properties of Tunnel Junctions With Co $\text{\$}_2\text{\$} MnSi/Co\text{\$}_2\text{\$}FeSi$ Multilayer Electrode Showing Large Tunneling Magnetoresistance. <i>IEEE Transactions on Magnetics</i> , 2007 , 43, 2806-2808	2	2
10	Reviewing Magnetic Particle Preparation: Exploring the Viability in Biosensing. <i>Sensors</i> , 2020 , 20,	3.8	2
9	The Influence of Martensitic Intercalations in Magnetic Shape Memory NiCoMnAl Multilayered Films. <i>Entropy</i> , 2021 , 23,	2.8	2
8	Elucidation of the strong effect of an interfacial monolayer on magnetoresistance in giant magnetoresistive devices with current perpendicular to the plane. <i>Physical Review B</i> , 2021 , 103,	3.3	2
7	Formation of magnetically anisotropic composite films at low magnetic fields. <i>Smart Materials and Structures</i> , 2017 , 26, 045018	3.4	1
6	Heusler Compounds Go Nano. <i>Springer Series in Materials Science</i> , 2016 , 111-132	0.9	1
5	Hydrogen-plasma-induced magnetocrystalline anisotropy ordering in self-assembled magnetic nanoparticle monolayers. <i>Beilstein Journal of Nanotechnology</i> , 2013 , 4, 164-72	3	

4 Heusler Alloyed Electrodes Integrated in Magnetic Tunnel-Junctions 241-265

3 Nano Scaled Checkerboards: A Long Range Ordering in NiCoMnAl Magnetic Shape Memory Alloy Thin Films with Martensitic Intercalations. *Applied Sciences (Switzerland)*, **2022**, 12, 1748 2.6

2 In-situ TEM annealing of amorphous Fe-24at.%W coatings and the effect of crystallization on hardness. *Journal of Materials Science*, **2021**, 56, 4006-4012 4.3

1 Spin- and Stress-Depending Electrical Transport in Nanoparticle Supercrystals: Sensing Elastic Properties of Organic Tunnel Barriers via Tunneling Magnetoresistance. *Advanced Electronic Materials*, 2200082 6.4