

Andras Deak

List of Publications by Year in descending order

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88
papers

1,519
citations

279487

23
h-index

360668

35
g-index

89
all docs

89
docs citations

89
times ranked

2555
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoparticle Clusters: Assembly and Control Over Internal Order, Current Capabilities, and Future Potential. <i>Advanced Materials</i> , 2016, 28, 5400-5424.	11.1	91
2	Fluctuating local moments, itinerant electrons, and the magnetocaloric effect: Compositional hypersensitivity of FeRh. <i>Physical Review B</i> , 2014, 89, .	1.1	80
3	Skyrmions with Attractive Interactions in an Ultrathin Magnetic Film. <i>Physical Review Letters</i> , 2016, 117, 157205.	2.9	80
4	Formation and stability of metastable skyrmionic spin structures with various topologies in an ultrathin film. <i>Physical Review B</i> , 2017, 95, .	1.1	61
5	Optically Trapped Gold Nanoparticle Enables Listening at the Microscale. <i>Physical Review Letters</i> , 2012, 108, 018101.	2.9	55
6	The structure and properties of graphene on gold nanoparticles. <i>Nanoscale</i> , 2015, 7, 5503-5509.	2.8	50
7	Complex Langmuir-Blodgett films from silica nanoparticles: An optical spectroscopy study. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2006, 278, 10-16.	2.3	45
8	Magnetic excitations in non-collinear antiferromagnetic Weyl semimetal Mn ₃ Sn. <i>Npj Quantum Materials</i> , 2018, 3, .	1.8	45
9	Contact angle determination of nanoparticles: film balance and scanning angle reflectometry studies. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 6359.	1.3	43
10	Metallic magnetism at finite temperatures studied by relativistic disordered moment description: Theory and applications. <i>Physical Review B</i> , 2014, 89, .	1.1	41
11	Interaction of Positively Charged Gold Nanoparticles with Cancer Cells Monitored by an in Situ Label-Free Optical Biosensor and Transmission Electron Microscopy. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 26841-26850.	4.0	39
12	Regular ZnO nanopillar arrays by nanosphere photolithography. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2013, 11, 1-7.	1.0	38
13	Nanostructured silica Langmuir-Blodgett films with antireflective properties prepared on glass substrates. <i>Thin Solid Films</i> , 2005, 484, 310-317.	0.8	36
14	Ellipsometry of Silica Nanoparticulate Langmuir-Blodgett Films for the Verification of the Validity of Effective Medium Approximations. <i>Langmuir</i> , 2006, 22, 8416-8423.	1.6	36
15	Thickness-dependent magnetic structure of ultrathin Fe/Ir(001) films: From spin-spiral states toward ferromagnetic order. <i>Physical Review B</i> , 2011, 84, .	1.1	33
16	Preparation of Compact Nanoparticle Clusters from Polyethylene Glycol-Coated Gold Nanoparticles by Fine-Tuning Colloidal Interactions. <i>Langmuir</i> , 2015, 31, 2662-2668.	1.6	32
17	Imaging of morphological changes and phase segregation in doped polymeric semiconductors. <i>Synthetic Metals</i> , 2015, 199, 381-387.	2.1	31
18	Large area self-assembled masking for photonic applications. <i>Applied Physics Letters</i> , 2006, 89, 063104.	1.5	30

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19	Magnetism of Gadolinium: A First-Principles Perspective. Physical Review Letters, 2015, 115, 096402.	2.9	30
20	Langmuir-Blodgett films composed of size-quantized ZnO nanoparticles: Fabrication and optical characterization. Thin Solid Films, 2006, 515, 2587-2595.	0.8	29
21	Membrane composition of jetted lipid vesicles: a Raman spectroscopy study. Journal of Biophotonics, 2012, 5, 40-46.	1.1	29
22	Langmuir and Langmuir-Blodgett Films of Bidisperse Silica Nanoparticles. Langmuir, 2010, 26, 2694-2699.	1.6	28
23	Thermal stability of mesoporous silica-coated gold nanorods with different aspect ratios. Materials Chemistry and Physics, 2014, 148, 909-913.	2.0	27
24	Use of the optical admittance function and its WKB approximation to simulate and evaluate transmittance spectra of graded-index colloidal films. Journal of Optics, 2007, 9, 920-930.	1.5	23
25	WO ₃ nano-rods sensitized with noble metal nano-particles for H ₂ S sensing in the ppb range. Materials Research Bulletin, 2016, 84, 480-485.	2.7	23
26	Three-dimensional view of the shape, size, and atomic composition of ordered nanostructures by Rutherford backscattering spectrometry. Physical Review B, 2011, 83, .	1.1	19
27	Controlling the nanoscale rippling of graphene with SiO ₂ nanoparticles. Nanoscale, 2014, 6, 6030.	2.8	19
28	CONTACT ANGLE DETERMINATION OF NANOPARTICLES: REAL EXPERIMENTS AND COMPUTER SIMULATIONS. Journal of Adhesion, 2004, 80, 1055-1072.	1.8	18
29	A 3D-RBS study of irradiation-induced deformation and masking properties of ordered colloidal nanoparticulate masks. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 79-86.	0.6	18
30	Magnetization compensation and spin reorientation transition in ferrimagnetic DyCo_5 : Multiscale modeling and element-specific measurements. Physical Review B, 2017, 96, .		
31	Relativistic spin-polarized KKR theory for superconducting heterostructures: Oscillating order parameter in the Au layer of Nb/Au/Fe trilayers. Physical Review B, 2018, 97, .	1.1	18
32	Spin-correlations and magnetic structure in an Fe monolayer on 5d transition metal surfaces. Journal of Physics Condensed Matter, 2014, 26, 186001.	0.7	17
33	Robust Contact Angle Determination for Needle-in-Drop Type Measurements. ACS Omega, 2019, 4, 18465-18471.	1.6	15
34	Assembling patchy nanorods with spheres: limitations imposed by colloidal interactions. Nanoscale, 2016, 8, 3523-3529.	2.8	14
35	Existence of a Precipitation Threshold in the Electrostatic Precipitation of Oppositely Charged Nanoparticles. Angewandte Chemie - International Edition, 2018, 57, 16062-16066.	7.2	14
36	Exceptional sign changes of the nonlocal spin Seebeck effect in antiferromagnetic hematite. Physical Review B, 2021, 103, .	1.1	14

#	ARTICLE	IF	CITATIONS
37	Aggregation kinetics and cluster structure of amino-PEG covered gold nanoparticles. RSC Advances, 2016, 6, 27151-27157.	1.7	13
38	Introducing nanoscaled surface morphology and percolation barrier network into mesoporous silica coatings. RSC Advances, 2015, 5, 60041-60053.	1.7	11
39	$\frac{1}{x} = x^{-1}$ xmlns:mml="http://www.w3.org/1998/Math/MathML"		

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55	Weak ferromagnetism in hexagonal Mn ₃ Z alloys (Z=Sn,Ge,Ga). Physical Review B, 2019, 100, .	1.1	7
56	Element-specific Magnetization Damping in Ferrimagnetic DyCo ₅ Alloys Revealed by Ultrafast X-ray Measurements. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2100047.	1.2	7
57	Self-assembly of like-charged nanoparticles into Voronoi diagrams. Physical Chemistry Chemical Physics, 2016, 18, 25735-25740.	1.3	6
58	CoPt/TiN films nanopatterned by RF plasma etching towards dot-patterned magnetic media. Applied Surface Science, 2018, 435, 31-38.	3.1	6
59	Site-Resolved Contributions to the Magnetic-Anisotropy Energy and Complex Spin Structure of $\text{Fe/MgO/SiO}_2/\text{MgO}$ Sandwiches. Physical Review Applied, 2018, 9, .	1.5	6
60	Novel method for the production of SiC micro and nanopatterns. Surface and Coatings Technology, 2019, 372, 427-433.	2.2	6
61	Chemical Interface Damping as an Indicator for Hexadecyltrimethylammonium Bromide Replacement by Short-Chain Thiols on Gold Nanorods. Journal of Physical Chemistry C, 2020, 124, 19736-19742.	1.5	6
62	Characterisation of Solid Supported Nanostructured Thin Films by Scanning Angle Reflectometry and UV-Vis Spectrometry. Materials Science Forum, 2007, 537-538, 329-336.	0.3	5
63	Effect of nanosphere monolayer on the morphology of ZnO nanowires grown by hydrothermal method. Materials Letters, 2012, 79, 242-244.	1.3	5
64	Identification of Dewetting Stages and Preparation of Single Chain Gold Nanoparticle Rings by Colloidal Lithography. Langmuir, 2016, 32, 963-971.	1.6	5
65	Structural and Optical Properties of Gold/Silica "Mushroom" Particles Prepared by Interfacial Templating. Particle and Particle Systems Characterization, 2017, 34, 1600291.	1.2	5
66	Gold Nanorod Plasmon Resonance Damping Effects on a Nanopatterned Substrate. Journal of Physical Chemistry C, 2018, 122, 24941-24948.	1.5	5
67	Reversible shape transition: Plasmonic nanorods in elastic nanocontainers. Materials Chemistry and Physics, 2013, 141, 343-347.	2.0	4
68	Ar ⁺ ion irradiation-induced reorganization of colloidal silica nanoparticles in Langmuir-Blodgett monolayers. Thin Solid Films, 2015, 574, 136-145.	0.8	4
69	Existence of a Precipitation Threshold in the Electrostatic Precipitation of Oppositely Charged Nanoparticles. Angewandte Chemie, 2018, 130, 16294-16298.	1.6	4
70	A Three-Dimensional Analysis of Magnetic Nanopattern Formation in FeRh Thin Films on MgO Substrates: Implications for Spintronic Devices. ACS Applied Nano Materials, 2022, 5, 5516-5526.	2.4	4
71	Testing accuracy of analytical methods by regression. Journal of Chemometrics, 2009, 23, 211-216.	0.7	3
72	Various Nanostructures on Macroscopically Large Areas Prepared by Tunable Ion-Swelling. Journal of Nanoscience and Nanotechnology, 2012, 12, 6712-6717.	0.9	3

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73	Langmuir-Blodgett Films of Gold Nanorods with Different Silica Shell Thicknesses. Periodica Polytechnica: Chemical Engineering, 2015, 59, 104-110.	0.5	3
74	Gas Sensitivity Enhancement of WO ₃ Nano-rods by Gold Nanoparticles. Procedia Engineering, 2015, 120, 1128-1131.	1.2	3
75	Janus and patchy nanoparticles: general discussion. Faraday Discussions, 2016, 191, 117-139.	1.6	3
76	Nanoparticle Assemblies: Nanoparticle Clusters: Assembly and Control Over Internal Order, Current Capabilities, and Future Potential (Adv. Mater. 27/2016). Advanced Materials, 2016, 28, 5764-5764.	11.1	3
77	Optical Properties of Bioinspired Disordered Photonic Nanoarchitectures. Nanopages, 2013, 8, 17-30.	0.2	3
78	Comparative investigation of Stober silica Langmuir-Blodgett films as optical model structures. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 936-940.	0.8	2
79	Magnetic correlations beyond the Heisenberg model in an Fe monolayer on Rh(100). Journal of Physics Condensed Matter, 2015, 27, 146003.	0.7	2
80	Preparation and characterization of two-dimensional metallic nanoparticle and void films derived from a colloidal template layer. Optics Express, 2016, 24, A424.	1.7	2
81	Mapping the nanomechanical properties of graphene suspended on silica nanoparticles. Journal of Experimental Nanoscience, 2016, 11, 1011-1018.	1.3	2
82	A technique for nanopatterning diverse materials. Surface and Coatings Technology, 2017, 313, 115-120.	2.2	2
83	Vapour sensing properties of graphene-covered gold nanoparticles. Nanoscale Advances, 2019, 1, 2408-2415.	2.2	2
84	Detecting spatial rearrangement of individual gold nanoparticle heterodimers. Physical Chemistry Chemical Physics, 2019, 21, 10146-10151.	1.3	2
85	Role of temperature-dependent spin model parameters in ultra-fast magnetization dynamics. Journal of Physics Condensed Matter, 2017, 29, 314003.	0.7	1
86	Regular patterning of PS substrates by a self-assembled mask. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 2021-2025.	0.8	0
87	Tuning the nanoscale rippling of graphene with PEGylated gold nanoparticles and ion irradiation. Carbon Trends, 2021, 5, 100080.	1.4	0
88	Finite permutable Putcha semigroups. Acta Scientiarum Mathematicarum, 2010, 76, 397-410.	0.2	0