

Mohammad Almasi Kashi

List of Publications by Year in descending order

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87
papers

1,343
citations

361413

20
h-index

454955

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88
all docs

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docs citations

88
times ranked

1133
citing authors

#	ARTICLE	IF	CITATIONS
1	Room temperature CPP-giant magnetoresistance in Ni/Cu multilayered nanowires. <i>Journal of Alloys and Compounds</i> , 2022, 894, 162286.	5.5	4
2	Template-based electrodeposited nonmagnetic and magnetic metal nanowire arrays as building blocks of future nanoscale applications. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 233002.	2.8	8
3	Angular-dependent magnetic properties of chemically synthesized single crystalline Co nanowires. <i>Materials Chemistry and Physics</i> , 2022, 281, 125807.	4.0	2
4	Tuning specific loss power of CoFe ₂ O ₄ nanoparticles by changing surfactant concentration in a combined co-precipitation and thermal decomposition method. <i>Ceramics International</i> , 2022, 48, 16967-16976.	4.8	13
5	Magnetization reversal properties and magnetostatic interactions of disk to rod-shaped FeNi layers separated by ultra-thin Cu layers. <i>Nanotechnology</i> , 2022, 33, 365701.	2.6	2
6	Self-Poled Sausage-Like PVDF Nanowires Produced by Confined Phase Inversion as Novel Piezoelectric Nanogenerators. <i>Advanced Materials Interfaces</i> , 2021, 8, 2001734.	3.7	14
7	Developing Cu pore-filling percentage in hard anodized anodic aluminum oxide templates with large diameters. <i>Materials Chemistry and Physics</i> , 2021, 260, 124109.	4.0	2
8	Small-diameter magnetic and metallic nanowire arrays grown in anodic porous alumina templates anodized in selenic acid. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	2.3	5
9	Self-ordered Porous Anodic Alumina Templates by a Combinatory Anodization Technique in Oxalic and Selenic Acids. <i>Journal of Electronic Materials</i> , 2021, 50, 4787-4796.	2.2	4
10	Synthesis and characterization of ultrafine $\text{Al}_2\text{O}_3\text{:Cr}$ nanoparticles and their performance in antibacterial activity. <i>Journal of Sol-Gel Science and Technology</i> , 2021, 99, 178-187.	2.4	4
11	In situ precipitation synthesis of FeNi/ZnO nanocomposites with high microwave absorption properties. <i>Materials Chemistry and Physics</i> , 2021, 266, 124508.	4.0	6
12	Enhancement and recovery of magnetic exchange coupling properties in SrFe ₁₁ AlO ₁₉ @NiFe ₂ O ₄ core-shell structure by multiple TiO ₂ and SiO ₂ nanolayer shells. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 530, 167932.	2.3	2
13	ZnO thin layer/Fe-based ribbon/ZnO thin layer sandwich structure: Introduction of a new GMI optimization method. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 493, 165697.	2.3	20
14	Structural and magnetic tunability of Co/Cu multilayer nanowires induced by electrolyte acidity and spacer layer thickness. <i>Journal of Alloys and Compounds</i> , 2020, 820, 153087.	5.5	9
15	The role of barrier layer temperature in the formation of long and small-diameter TiO ₂ nanotube arrays. <i>Journal of Porous Materials</i> , 2020, 27, 1613-1621.	2.6	3
16	Super-fast fabrication of self-ordered nanoporous anodic alumina membranes by ultra-hard anodization. <i>Electrochimica Acta</i> , 2020, 354, 136766.	5.2	17
17	High Chemical and Thermal Stability of Ag Nanowire-Based Transparent Conductive Electrodes Induced by Electroless Ag Nanoparticle Decoration. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020, 217, 1900957.	1.8	7
18	Efficiency improvement in non-enzymatic H ₂ O ₂ detection induced by the simultaneous synthesis of Au and Ag nanoparticles in an RGO/Au/Fe ₃ O ₄ /Ag nanocomposite. <i>New Journal of Chemistry</i> , 2020, 44, 9037-9045.	2.8	23

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19	Detailed magnetic characteristics of cobalt ferrite ($\text{Co}_x\text{Fe}_{3-x}\text{O}_4$) nanoparticles synthesized in the presence of PVP surfactant. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	2.3	6
20	The influence of point defects on Na diffusion in black phosphorene: First principles study. <i>Journal of Physics and Chemistry of Solids</i> , 2020, 143, 109432.	4.0	3
21	Exploring the effect of Co concentration on magnetic hyperthermia properties of $\text{Co}_x\text{Fe}_{3-x}\text{O}_4$ nanoparticles. <i>Materials Research Express</i> , 2020, 7, 016113.	1.6	12
22	Capturing dual behavior of the parallel coercivity in FeNi/Cu nanowire arrays by fine-tuning of segment thicknesses. <i>Journal of Alloys and Compounds</i> , 2020, 825, 153992.	5.5	10
23	Etching of ZnO nanorods by ZnO nanoparticles and adjustment of morphological and UV photodetection properties. <i>Journal of Sol-Gel Science and Technology</i> , 2020, 95, 109-118.	2.4	4
24	Three-dimensional ZnO nanorods growth on ZnO nanorods seed layer for high responsivity UV photodetector. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	2.3	12
25	Hyperthermia properties of $\text{Ni}_x\text{Fe}_{3-x}\text{O}_4$ nanoparticles: a first-order reversal curve investigation. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 21278-21287.	2.2	11
26	Fixed vortex domain wall propagation in FeNi/Cu multilayered nanowire arrays driven by reversible magnetization evolution. <i>Journal of Applied Physics</i> , 2019, 125, .	2.5	15
27	Surfactant-free synthesis and magnetic hyperthermia investigation of iron oxide (Fe_3O_4) nanoparticles at different reaction temperatures. <i>Materials Chemistry and Physics</i> , 2019, 230, 9-16.	4.0	40
28	Magnetic phase tuning of diluted Fe-doped CuO nanoparticles through annealing temperature as characterized by first-order reversal curve analysis. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 482, 301-311.	2.3	9
29	Deciphering magnetic hyperthermia properties of compositionally and morphologically modulated FeNi nanoparticles using first-order reversal curve analysis. <i>Nanotechnology</i> , 2019, 30, 025707.	2.6	7
30	The role of different initial rest times on synthesized buffer layer and UV sensing of ZnO nanorods grown on rotational substrate. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 8303-8312.	2.2	2
31	Tuning the optical properties of nanoporous anodic alumina photonic crystals by control of allowed voltage range via mixed acid concentration. <i>Journal of Physics and Chemistry of Solids</i> , 2018, 118, 221-231.	4.0	13
32	Controlling structural and magnetic properties in CoNi and CoNiFe nanowire arrays by fine-tuning of Fe content. <i>Journal of Alloys and Compounds</i> , 2018, 756, 193-201.	5.5	17
33	Analysis of structural and UV photodetecting properties of ZnO nanorod arrays grown on rotating substrate. <i>Journal of Sol-Gel Science and Technology</i> , 2018, 85, 458-469.	2.4	4
34	Stone-Wales like defects formation, stability and reactivity in black phosphorene. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2018, 236-237, 208-216.	3.5	14
35	Study on magnetic properties of NiFe/Cu multisegmented nanowire arrays with different Cu thicknesses via FORC analysis: coercivity, interaction, magnetic reversibility. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 18771-18780.	2.2	4
36	Probing the interplay between reversibility and magnetostatic interactions within arrays of multisegmented nanowires. <i>Journal of Materials Science</i> , 2018, 53, 14629-14644.	3.7	4

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37	Electrodeposited metal nanowires as transparent conductive electrodes: Their release conditions, electrical conductivity, optical transparency and chemical stability. <i>Materials and Design</i> , 2018, 157, 326-336.	7.0	17
38	Magnetic alloy nanowire arrays with different lengths: Insights into the crossover angle of magnetization reversal process. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 430, 6-15.	2.3	17
39	A facile method to form highly-ordered TiO ₂ nanotubes at a stable growth rate of 1000 $\hat{\text{a}}^{\text{c}}\%$ nm min ⁻¹ under 60 V using an organic electrolyte for improved photovoltaic properties. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 375501.	2.8	10
40	Magnetically extracted microstructural development along the length of Co nanowire arrays: The interplay between deposition frequency and magnetic coercivity. <i>Journal of Applied Physics</i> , 2016, 120, .	2.5	12
41	Axially adjustable magnetic properties in arrays of multilayered Ni/Cu nanowires with variable segment sizes. <i>Superlattices and Microstructures</i> , 2016, 95, 38-47.	3.1	18
42	Irreversible evolution of angular-dependent coercivity in Fe ₈₀ Ni ₂₀ nanowire arrays: Detection of a single vortex state. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 414, 158-167.	2.3	21
43	Self-ordered nanopore arrays through hard anodization assisted by anode temperature ramp. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	2.3	1
44	Angular-dependent magnetism in Co(001) single-crystal nanowires: capturing the vortex nucleation fields. <i>Journal of Materials Chemistry C</i> , 2016, 4, 10664-10674.	5.5	17
45	Developing high coercivity in large diameter cobalt nanowire arrays. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 445001.	2.8	14
46	Electrochemical pore filling strategy for controlled growth of magnetic and metallic nanowire arrays with large area uniformity. <i>Nanotechnology</i> , 2016, 27, 275605.	2.6	16
47	Large scale ZnO nanorod-based UV sensor induced by optimal seed layer. <i>Ceramics International</i> , 2016, 42, 13421-13431.	4.8	15
48	Effect of annealing process in tuning of defects in ZnO nanorods and their application in UV photodetectors. <i>Optik</i> , 2016, 127, 4675-4681.	2.9	57
49	First-order-reversal-curve (FORC) diagrams of alternative chain of soft/ hard magnetic CoFe/Cu multilayer nanowires. <i>Current Applied Physics</i> , 2016, 16, 486-496.	2.4	12
50	Tunable magnetocrystalline easy axis in cobalt nanowire arrays by zinc additive. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2016, 207, 18-25.	3.5	4
51	Tailoring magnetic properties in arrays of pulse-electrodeposited Co nanowires: The role of Cu additive. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 397, 64-72.	2.3	13
52	The effect of deposition parameters on the magnetic behavior of CoFe/Cu multilayer nanowires. <i>European Physical Journal Plus</i> , 2015, 130, 1.	2.6	5
53	Tuning magnetic fingerprints of FeNi nanowire arrays by varying length and diameter. <i>Current Applied Physics</i> , 2015, 15, 819-828.	2.4	41
54	Angular dependence of interactions in polycrystalline Co nanowire arrays. <i>Materials Chemistry and Physics</i> , 2015, 159, 128-138.	4.0	11

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55	Unraveling the roles of thermal annealing and off-time duration in magnetic properties of pulsed electrodeposited NiCu nanowire arrays. <i>Journal of Applied Physics</i> , 2015, 117, .	2.5	10
56	Reversal modes in FeCoNi nanowire arrays: Correlation between magnetostatic interactions and nanowires length. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 378, 73-83.	2.3	44
57	Enhanced gas-sensing properties of ZnO nanorods encapsulated in an Fe-doped ZnO shell. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 075003.	2.8	42
58	The effect of magnetic layer thickness on magnetic properties of Fe/Cu multilayer nanowires. <i>Materials Chemistry and Physics</i> , 2014, 144, 230-234.	4.0	25
59	Fabrication of single crystalline, uniaxial single domain Co nanowire arrays with high coercivity. <i>Journal of Applied Physics</i> , 2014, 115, 113902.	2.5	19
60	Electrical investigation and ultraviolet detection of ZnO nanorods encapsulated with ZnO and Fe-doped ZnO layer. <i>Journal of Sol-Gel Science and Technology</i> , 2014, 71, 540-548.	2.4	9
61	FORC investigation of as-deposited and annealed CoZn alloy nanowires. <i>Physica B: Condensed Matter</i> , 2014, 452, 124-130.	2.7	5
62	A new approach to fabricating magnetic multilayer nanowires by modifying the ac pulse electrodeposition in a single bath. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 355003.	2.8	23
63	First order reversal curve investigation of the hard and soft magnetic phases of annealed CoFeCu nanowire arrays. <i>Physica B: Condensed Matter</i> , 2013, 429, 46-51.	2.7	10
64	Magnetostatic Interaction Investigation of CoFe Alloy Nanowires by First-Order Reversal-Curve Diagrams. <i>IEEE Transactions on Magnetism</i> , 2013, 49, 1167-1171.	2.1	23
65	Improvement in the microstructure and magnetic properties in arrays of dc pulse electrodeposited Co nanowires induced by Cu pre-plating. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 295002.	2.8	15
66	Effect of AC Electrodeposition Conditions on Microstructure and Magnetic Properties of Co _x Ni _{1-x} Nanowire Arrays Embedded in Anodic Aluminum Oxide Template. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 025003.	1.5	2
67	Dual behaviors of magnetic Co _x Fe _{1-x} (0 ≤ x ≤ 1) nanowires embedded in nanoporous with different diameters. <i>Journal of Magnetism and Magnetic Materials</i> , 2012, 324, 3193-3198.	2.3	15
68	Structure and magnetic properties of Co _x Cu _{1-x} nanowires in self-assembled arrays. <i>Journal of Alloys and Compounds</i> , 2012, 540, 133-136.	5.5	8
69	Pulse electrodeposition of Co _{1-x} Zn _x nanowire arrays: Magnetic improvement through electrolyte concentration, off-time between pulses and annealing. <i>Journal of Magnetism and Magnetic Materials</i> , 2012, 324, 3944-3950.	2.3	5
70	Capacitive humidity sensors based on large diameter porous alumina prepared by high current anodization. <i>Sensors and Actuators A: Physical</i> , 2012, 174, 69-74.	4.1	53
71	Crystallinity and magnetic properties of electrodeposited Co nanowires in porous alumina. <i>Journal of Magnetism and Magnetic Materials</i> , 2012, 324, 1826-1831.	2.3	31
72	Effect of AC Electrodeposition Conditions on Microstructure and Magnetic Properties of Co _x Ni _{1-x} Nanowire Arrays Embedded in Anodic Aluminum Oxide Template. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 025003.	1.5	0

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73	Self-Ordered Nanopore Arrays with 300–400 nm Interpore Distances Formed by High Field Accelerated Mild Anodization. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 035203.	1.5	2
74	Controlled Cu content of electrodeposited CoCu nanowires through pulse features and investigations of microstructures and magnetic properties. <i>Applied Surface Science</i> , 2011, 257, 9347-9350.	6.1	14
75	Magnetic properties improvement through off time between pulses and annealing in pulse electrodeposited CoZn nanowires. <i>Journal of Alloys and Compounds</i> , 2011, 509, 8845-8849.	5.5	14
76	Microstructure and magnetic properties in arrays of ac electrodeposited Fe _x Ni _{1-x} nanowires induced by the continuous and pulse electrodeposition. <i>Applied Physics A: Materials Science and Processing</i> , 2011, 102, 761-764.	2.3	23
77	The influence of asymmetric electrodeposition voltage on the microstructure and magnetic properties of Fe _x Co _{1-x} nanowire arrays. <i>Journal of Crystal Growth</i> , 2011, 327, 78-83.	1.5	9
78	Self-Ordered Nanopore Arrays with 300–400 nm Interpore Distances Formed by High Field Accelerated Mild Anodization. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 035203.	1.5	1
79	The influence of crystallinity enhancement on the magnetic properties of ac electrodeposited Fe nanowires. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 98, 691-697.	2.3	19
80	Self-ordering of anodic nanoporous alumina fabricated by accelerated mild anodization method. <i>Thin Solid Films</i> , 2010, 518, 6767-6772.	1.8	23
81	The effect of growth rate enhancement on the magnetic properties and microstructures of ac electrodeposited Co nanowires using non-symmetric reductive/oxidative voltage. <i>Journal of Crystal Growth</i> , 2009, 311, 4581-4586.	1.5	16
82	Fabrication of high aspect ratio Co nanowires with controlled magnetization direction using ac and pulse electrodeposition. <i>Materials Chemistry and Physics</i> , 2008, 112, 285-289.	4.0	23
83	Optimized microstructure and magnetic properties in arrays of ac electrodeposited Co nanowires induced by the continuous and pulse electrodeposition. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 5533-5536.	2.8	20
84	Optimum self-ordered nanopore arrays with 130–270 nm interpore distances formed by hard anodization in sulfuric/oxalic acid mixtures. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 7032-7040.	2.8	51
85	The effect of pH and composition of sulfuric–oxalic acid mixture on the self-ordering configuration of high porosity alumina nanohole arrays. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 4625-4630.	2.8	32
86	The influence of the ac electrodeposition conditions on the magnetic properties and microstructure of Co nanowire arrays. <i>Journal Physics D: Applied Physics</i> , 2006, 39, 4130-4135.	2.8	31
87	The effect of temperature and concentration on the self-organized pore formation in anodic alumina. <i>Journal Physics D: Applied Physics</i> , 2005, 38, 2396-2399.	2.8	93