

Athanassios Speliotis

List of Publications by Year in descending order

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104
papers

1,387
citations

331670

21
h-index

395702

33
g-index

106
all docs

106
docs citations

106
times ranked

1965
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic-field-free spin-orbit torque-driven magnetization dynamics in CoFeB/ W -based nanoelements. <i>AIP Advances</i> , 2022, 12, .	1.3	1
2	Multitasking Performance of $\text{Fe}_3\text{O}_4/\text{BaTiO}_3/\text{Epoxy}$ Resin Hybrid Nanocomposites. <i>Materials</i> , 2022, 15, 1784.	2.9	10
3	Micrometer thick Sm-Co films for applications on flexible systems. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2022, 280, 115691.	3.5	2
4	Coherent Magnetization Dynamics in $\text{Ni}_{80}\text{Fe}_{20}$ Thin Films Incorporated in Fe/Au Spintronic Terahertz Emitters. <i>IEEE Transactions on Magnetics</i> , 2021, 57, 1-4.	2.1	0
5	Villari magnetomechanical coupling at hcp-Cobalt thin films on flexible substrates. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 264, 114945.	3.5	1
6	Evaluating the multifunctional performance of polymer matrix nanodielectrics incorporating magnetic nanoparticles: A comparative study. <i>Polymer</i> , 2021, 236, 124311.	3.8	10
7	Development and characterization of multifunctional yttrium iron garnet/epoxy nanodielectrics. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 142, 1701-1708.	3.6	2
8	Nanometer-Thick Bismuth Nanocrystal Films for Sensoric Applications. <i>ACS Applied Nano Materials</i> , 2020, 3, 9669-9678.	5.0	7
9	High Layer Uniformity of Two-Dimensional Materials Demonstrated Surprisingly from Broad Features in Surface Electron Diffraction. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 8937-8943.	4.6	9
10	Probing the magnetoelectric response and energy efficiency in $\text{Fe}_3\text{O}_4/\text{epoxy}$ nanocomposites. <i>Polymer Testing</i> , 2020, 88, 106560.	4.8	15
11	Structural and magnetotransport characterization of magnetron sputtered co-doped Bi_2Te_3 thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 511, 166971.	2.3	2
12	Optimization of Antibacterial Properties of "Hybrid" Metal-Sputtered Superhydrophobic Surfaces. <i>Coatings</i> , 2020, 10, 25.	2.6	26
13	A UV photodetector based on ordered free standing MWCNT. <i>Journal of Instrumentation</i> , 2020, 15, C01015-C01015.	1.2	3
14	Investigating the Effect of Zn Ferrite Nanoparticles on the Thermomechanical, Dielectric and Magnetic Properties of Polymer Nanocomposites. <i>Materials</i> , 2019, 12, 3015.	2.9	23
15	Organic solar cells of enhanced efficiency and stability using zinc oxide:zinc tungstate nanocomposite as electron extraction layer. <i>Organic Electronics</i> , 2019, 71, 227-237.	2.6	18
16	Anomalous Hall Effect in a Magnetic Topological Insulator $(\text{BiMn})_2\text{Te}_3$. <i>IEEE Transactions on Magnetics</i> , 2019, 55, 1-6.	2.1	3
17	$\text{Mo}_2\text{C}/\text{graphene}$ heterostructures: low temperature chemical vapor deposition on liquid bimetallic Sn-Cu and hydrogen evolution reaction electrocatalytic properties. <i>Nanotechnology</i> , 2019, 30, 125401.	2.6	44
18	Carbon nanotube Schottky type photodetectors for UV applications. <i>Solid-State Electronics</i> , 2019, 151, 27-35.	1.4	12

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19	Magnetic nanoparticles in polymer matrix nanodielectrics: Manufacturing, characterization and functionality. <i>Materials Today: Proceedings</i> , 2018, 5, 27491-27499.	1.8	1
20	Magneto-Dielectric Behaviour of M-Type Hexaferrite/Polymer Nanocomposites. <i>Materials</i> , 2018, 11, 2551.	2.9	24
21	Insight and control of the chemical vapor deposition growth parameters and morphological characteristics of graphene/Mo ₂ C heterostructures over liquid catalyst. <i>Journal of Crystal Growth</i> , 2018, 495, 46-53.	1.5	40
22	Insights into the passivation effect of atomic layer deposited hafnium oxide for efficiency and stability enhancement in organic solar cells. <i>Journal of Materials Chemistry C</i> , 2018, 6, 8051-8059.	5.5	20
23	Magnetic anisotropy phase-graded Al ₁ /Li ₀ -FePt films on amorphous glass substrates. <i>Materials and Design</i> , 2017, 123, 147-153.	7.0	11
24	Development, characterization, energy storage and interface dielectric properties in SrFe ₁₂ O ₁₉ / epoxy nanocomposites. <i>Polymer</i> , 2017, 120, 73-81.	3.8	36
25	Microwave exposure as a fast and cost-effective alternative of oxygen plasma treatment of indium-tin oxide electrode for application in organic solar cells. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 505105.	2.8	0
26	Magnetotransport properties of nanogranular Bi and Co(c=0.2)Bi(1-c) thin films. <i>Journal of Physics: Conference Series</i> , 2017, 903, 012037.	0.4	0
27	Magneto-Electric Response and Functionality in Barium Ferrite/Barium Titanate/Epoxy Resin Nanocomposites. <i>Journal of Advanced Physics</i> , 2017, 6, 69-75.	0.4	1
28	Ledge-type Co/L1-FePt exchange-coupled composites. <i>Journal of Applied Physics</i> , 2016, 119, .	2.5	5
29	MANOS performance dependence on ALD Al ₂ O ₃ oxidation source. <i>Microelectronic Engineering</i> , 2016, 159, 127-131.	2.4	1
30	Fe + ion irradiation induced changes in structural and magnetic properties of iron films. <i>Nuclear Materials and Energy</i> , 2016, 9, 459-464.	1.3	15
31	Dehydration of molybdenum oxide hole extraction layers via microwave annealing for the improvement of efficiency and lifetime in organic solar cells. <i>Journal of Materials Chemistry C</i> , 2016, 4, 7683-7694.	5.5	13
32	Experimental investigation of metallic thin film modification of nickel substrates for chemical vapor deposition growth of single layer graphene at low temperature. <i>Applied Surface Science</i> , 2016, 385, 554-561.	6.1	12
33	TiO ₂ /graphene composite photocatalysts for NO _x removal: A comparison of surfactant-stabilized graphene and reduced graphene oxide. <i>Applied Catalysis B: Environmental</i> , 2016, 180, 637-647.	20.2	199
34	Flexible Microfabricated Film Sensors for the in Situ Quantum Dot-Based Voltammetric Detection of DNA Hybridization in Microwells. <i>Analytical Chemistry</i> , 2015, 87, 853-857.	6.5	21
35	Microstructure and magnetic properties of (0 01) textured L10 FePt films on amorphous glass substrate. <i>Applied Surface Science</i> , 2015, 337, 118-124.	6.1	19
36	Scaling of magnetotransport properties in granular Co(c=0.8)Bi(1-c) thin films. <i>Applied Surface Science</i> , 2015, 334, 45-51.	6.1	1

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37	Effect of ZnO Nanoparticles on the Dielectric/Electrical and Thermal Properties of Epoxy-Based Nanocomposites. <i>Science of Advanced Materials</i> , 2015, 7, 588-597.	0.7	8
38	Quantum interference effects in [Co/Bi]nthin films. <i>EPJ Web of Conferences</i> , 2014, 75, 01002.	0.3	1
39	Tin-film mini-sensors fabricated by a thin-layer microelectronic approach for stripping voltammetric determination of trace metals. <i>Electrochemistry Communications</i> , 2014, 38, 96-99.	4.7	16
40	Solution-processed nanostructured zinc oxide cathode interfacial layers for efficient inverted organic photovoltaics. <i>Microelectronic Engineering</i> , 2014, 119, 100-104.	2.4	17
41	Study of microstructure and magnetic properties of L10FePt/SiO2thin films. <i>EPJ Web of Conferences</i> , 2014, 75, 06014.	0.3	0
42	Extraordinary magnetization of amorphous TbDyFe films. <i>Microelectronic Engineering</i> , 2013, 112, 183-187.	2.4	16
43	Electronic band structure imaging of three layer twisted graphene on single crystal Cu(111). <i>Applied Physics Letters</i> , 2013, 103, 213108.	3.3	8
44	Phosphopeptide enrichment and separation in an affinity microcolumn on a silicon microchip: Comparison of sputtered and wet-deposited TiO2 stationary-phase. <i>Sensors and Actuators B: Chemical</i> , 2013, 188, 1073-1079.	7.8	4
45	Structural and magnetic properties of L10/A1, FePt nanocomposites. <i>Journal of Magnetism and Magnetic Materials</i> , 2013, 325, 75-81.	2.3	8
46	Fabrication and high-resolution electron microscopy study of FePt L1₀/A1 graded exchange spring media. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 1305-1310.	1.8	8
47	Scaling of Hall coefficient in Co-Bi granular thin films. <i>EPJ Web of Conferences</i> , 2013, 40, 12002.	0.3	3
48	Interfacial Properties of ALD-Deposited Al2O3/p-Type Germanium MOS Structures: Influence of Oxidized Ge Interfacial Layer Dependent on Al2O3 Thickness. <i>ECS Solid State Letters</i> , 2012, 1, P32-P34.	1.4	15
49	Magnetization Dynamics in Vortex-Imprinted Ni₈₀Fe₂₀/Ir₈₀Mn₂₀ Square Elements. <i>IEEE Magnetics Letters</i> , 2012, 3, 3500204-3500204.	1.1	2
50	Current pulse induced toggle switching of dual-vortex magnetization in Ni80Fe20/Cu/Co nanopillar element. <i>Journal of Applied Physics</i> , 2012, 112, .	2.5	1
51	Joining of Cf/SiC Ceramics to Nimonic Alloys. <i>Journal of Materials Engineering and Performance</i> , 2012, 21, 683-689.	2.5	17
52	Magnetic and magnetoelastic properties of the TbDyFeCo system. <i>Microelectronic Engineering</i> , 2012, 90, 149-151.	2.4	1
53	TiO2 Affinity Chromatography Microcolumn on Si Substrates for Phosphopeptide Analysis. <i>Procedia Engineering</i> , 2011, 25, 717-720.	1.2	4
54	Disposable microfabricated bismuth microelectrode arrays for trace metal analysis by stripping voltammetry. <i>Procedia Engineering</i> , 2011, 25, 880-883.	1.2	7

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55	Magnetic properties of nanomagnetic and biomagnetic systems analyzed using cantilever magnetometry. <i>Nanotechnology</i> , 2011, 22, 285715.	2.6	16
56	Disposable lithographically fabricated bismuth microelectrode arrays for stripping voltammetric detection of trace metals. <i>Electrochemistry Communications</i> , 2011, 13, 391-395.	4.7	43
57	High performance n+/p and p+/n germanium diodes at low-temperature activation annealing. <i>Microelectronic Engineering</i> , 2011, 88, 254-261.	2.4	7
58	Fluorescence enhancement from plasmonic Au templates. <i>Microelectronic Engineering</i> , 2011, 88, 1845-1848.	2.4	0
59	Influence of thermal oxidation on the interfacial properties of ultrathin strained silicon layers. <i>Thin Solid Films</i> , 2011, 519, 5456-5463.	1.8	0
60	Growth and characterization of uniform ZnO films as piezoelectric materials using a hydrothermal growth technique. <i>Proceedings of SPIE</i> , 2011, , .	0.8	2
61	Hard/graded exchange spring composite media based on FePt. <i>Journal of Applied Physics</i> , 2011, 109, .	2.5	23
62	Magnetization Process in Vortex-imprinted Ni ₈₀ Fe ₂₀ /Ir ₂₀ Mn ₈₀ Square Elements. <i>Journal of Magnetism and Magnetic Materials</i> , 2011, 16, 83-87.	0.4	2
63	Brazing of carbon-carbon composites to Nimonic alloys. <i>Journal of Materials Science</i> , 2010, 45, 74-81.	3.7	30
64	Determination of Trace Tl(I) by Anodic Stripping Voltammetry on Novel Disposable Microfabricated Bismuth Film Sensors. <i>Electroanalysis</i> , 2010, 22, 2359-2365.	2.9	27
65	Exchange bias and negative magnetoresistance in [Co/Bi/Co]/IrMn thin films]. <i>Journal of Magnetism and Magnetic Materials</i> , 2010, 322, 65-68.	2.3	0
66	Incoherent interaction of propagating spin waves with precessing magnetic moments. <i>Physical Review B</i> , 2010, 81, .	3.2	3
67	Metal-induced low temperature activation and passivation of germanium N ⁺ /P and P ⁺ /N Junctions. , 2009, , .		0
68	Initial Stages of Thermally and Hot-Wire Assisted CVD Copper on SiLK [®] and LTO Substrates Activated with Mercaptopropyl Triethoxysilane Self-Assembled Monolayers. <i>ECS Transactions</i> , 2009, 25, 893-899.	0.5	0
69	A novel microfluidic integration technology for PCB-based devices: Application to microflow sensing. <i>Microelectronic Engineering</i> , 2009, 86, 1382-1384.	2.4	40
70	Novel disposable microfabricated antimony-film electrodes for adsorptive stripping analysis of trace Ni(II). <i>Electrochemistry Communications</i> , 2009, 11, 250-253.	4.7	58
71	Large magnetoresistance in [Co(1nm)/Bi(2.5nm)] ₁₀ line structures. <i>Microelectronic Engineering</i> , 2009, 86, 1050-1053.	2.4	1
72	Tailoring exchange bias in magnetic nanostructures. <i>Microelectronic Engineering</i> , 2009, 86, 1063-1066.	2.4	1

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73	Disposable micro-fabricated electrochemical bismuth sensors for the determination of Tl(I) by stripping voltammetry. <i>Procedia Chemistry</i> , 2009, 1, 1039-1042.	0.7	8
74	Dye-sensitization of self-assembled titania nanotubes prepared by galvanostatic anodization of Ti sputtered on conductive glass. <i>Nanotechnology</i> , 2009, 20, 365601.	2.6	49
75	Oxidation behaviour of SiC coatings. <i>Applied Physics A: Materials Science and Processing</i> , 2008, 92, 387-395.	2.3	15
76	Aqueous base developable: easy stripping, high aspect ratio negative photoresist for optical and proton beam lithography. <i>Microsystem Technologies</i> , 2008, 14, 1423-1428.	2.0	7
77	Evaluation of a gas flow sensor implemented on organic substrate. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008, 5, 3839-3842.	0.8	0
78	ZnO nanorod growth based on a low-temperature silicon-compatible combinatorial method. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008, 5, 3809-3812.	0.8	4
79	Effect of deposition pressure and post deposition annealing on SmCo thin film properties. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008, 5, 3759-3762.	0.8	6
80	Efficient infrared emission from patterned thin metal films on a Si photonic crystal. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008, 205, 2581-2584.	1.8	0
81	Efficient infrared emission from periodically patterned thin metal films on a Si photonic crystal. <i>Microelectronic Engineering</i> , 2008, 85, 1112-1115.	2.4	0
82	Field-effect transistors with thin ZnO as active layer for gas sensor applications. <i>Microelectronic Engineering</i> , 2008, 85, 1035-1038.	2.4	23
83	Magneto-transport properties of [Co/Bi] _n wire structures. <i>Journal of Magnetism and Magnetic Materials</i> , 2008, 320, e720-e724.	2.3	2
84	Disposable mercury-free cell-on-a-chip devices with integrated microfabricated electrodes for the determination of trace nickel(II) by adsorptive stripping voltammetry. <i>Analytica Chimica Acta</i> , 2008, 622, 111-118.	5.4	51
85	Magnetotransport properties of cobalt-iron pyrite films. <i>Thin Solid Films</i> , 2008, 516, 2078-2081.	1.8	8
86	Large asymmetries of magnetoresistance loops in Co-line structures. <i>Microelectronic Engineering</i> , 2008, 85, 1382-1385.	2.4	0
87	Implementation of hard magnetic thin films on suspended cantilevers for electromagnetic energy harvesters. , 2007, , .		1
88	Thermal Characterization of Porous Silicon Micro-Hotplates using IR Thermography. , 2007, , .		0
89	A novel microfabrication technology on organic substrates " application to a thermal flow sensor. <i>Journal of Physics: Conference Series</i> , 2007, 92, 012046.	0.4	21
90	Novel disposable bismuth-sputtered electrodes for the determination of trace metals by stripping voltammetry. <i>Electrochemistry Communications</i> , 2007, 9, 2795-2800.	4.7	57

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91	Effect of magnetic field on metal-insulator transitions in Bi-wire structures. <i>Microelectronic Engineering</i> , 2007, 84, 1528-1531.	2.4	0
92	Exchange bias in ferromagnetic-antiferromagnetic submicron structures. <i>Microelectronic Engineering</i> , 2007, 84, 1536-1539.	2.4	1
93	Micro-motor with screen-printed rotor magnets. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 316, e120-e123.	2.3	12
94	Preparation of Nd-Fe-B Magnets by Screen Printing. <i>Journal of Iron and Steel Research International</i> , 2006, 13, 405-410.	2.8	2
95	Characteristics of MOS diodes fabricated using sputter-deposited W or Cu/W films. <i>Microelectronic Engineering</i> , 2006, 83, 1434-1437.	2.4	6
96	Microstructure and magnetic properties of SmCo films. <i>Journal of Magnetism and Magnetic Materials</i> , 2005, 290-291, 1195-1197.	2.3	23
97	Nd-Fe-B thick films prepared by screen printing. <i>IEEE Transactions on Magnetics</i> , 2005, 41, 3901-3903.	2.1	12
98	Extraordinary Hall effect in (, FeMn) multilayers with perpendicular anisotropy. <i>Journal of Magnetism and Magnetic Materials</i> , 2005, 290-291, 1056-1058.	2.3	0
99	Polarity of anomalous Hall effect hysteresis loops in [Pt-Co] ₁₅ -AF-[Co-Pt] ₁₅ (AF=FeMn, NiO) multilayers with perpendicular anisotropy. <i>Journal of Applied Physics</i> , 2005, 97, 013901.	2.5	9
100	Deposition of hard magnetic SmCo ₅ thin films by magnetron sputtering. <i>Journal of Physics: Conference Series</i> , 2005, 10, 175-177.	0.4	5
101	From the second magnetization peak to peak effect. A study of superconducting properties in Nb films and MgB ₂ bulk samples. <i>Superconductor Science and Technology</i> , 2004, 17, 1261-1274.	3.5	27
102	Effect of post deposition annealing on the hysteresis loops of sputtered NdFeB films. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, E877-E879.	2.3	8
103	Magnetostrictive properties of amorphous and crystalline TbDyFe thin films. <i>Sensors and Actuators A: Physical</i> , 2003, 106, 298-301.	4.1	31
104	Graphite-Nimonic Alloy Brazing. <i>Advanced Materials Research</i> , 0, 59, 209-213.	0.3	3