

Athanasios 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	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
2	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
3	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
4	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
5	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
6	Mo ₂ C/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
7	Disposable lithographically fabricated bismuth microelectrode arrays for stripping voltammetric detection of trace metals. <i>Electrochemistry Communications</i> , 2011, 13, 391-395.	4.7	43
8	A novel microfluidic integration technology for PCB-based devices: Application to microflow sensing. <i>Microelectronic Engineering</i> , 2009, 86, 1382-1384.	2.4	40
9	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
10	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
11	Magnetostrictive properties of amorphous and crystalline TbDyFe thin films. <i>Sensors and Actuators A: Physical</i> , 2003, 106, 298-301.	4.1	31
12	Brazing of carbon-carbon composites to Nimonic alloys. <i>Journal of Materials Science</i> , 2010, 45, 74-81.	3.7	30
13	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
14	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
15	Optimization of Antibacterial Properties of Ag-Hybrid-Metal-Sputtered Superhydrophobic Surfaces. <i>Coatings</i> , 2020, 10, 25.	2.6	26
16	Magneto-Dielectric Behaviour of M-Type Hexaferrite/Polymer Nanocomposites. <i>Materials</i> , 2018, 11, 2551.	2.9	24
17	Microstructure and magnetic properties of SmCo films. <i>Journal of Magnetism and Magnetic Materials</i> , 2005, 290-291, 1195-1197.	2.3	23
18	Field-effect transistors with thin ZnO as active layer for gas sensor applications. <i>Microelectronic Engineering</i> , 2008, 85, 1035-1038.	2.4	23

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19	Hard/graded exchange spring composite media based on FePt. <i>Journal of Applied Physics</i> , 2011, 109, .	2.5	23
20	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
21	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
22	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
23	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
24	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
25	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
26	Joining of Cf/SiC Ceramics to Nimonic Alloys. <i>Journal of Materials Engineering and Performance</i> , 2012, 21, 683-689.	2.5	17
27	Solution-processed nanostructured zinc oxide cathode interfacial layers for efficient inverted organic photovoltaics. <i>Microelectronic Engineering</i> , 2014, 119, 100-104.	2.4	17
28	Magnetic properties of nanomagnetic and biomagnetic systems analyzed using cantilever magnetometry. <i>Nanotechnology</i> , 2011, 22, 285715.	2.6	16
29	Extraordinary magnetization of amorphous TbDyFe films. <i>Microelectronic Engineering</i> , 2013, 112, 183-187.	2.4	16
30	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
31	Oxidation behaviour of SiC coatings. <i>Applied Physics A: Materials Science and Processing</i> , 2008, 92, 387-395.	2.3	15
32	Interfacial Properties of ALD-Deposited Al ₂ O ₃ /p-Type Germanium MOS Structures: Influence of Oxidized Ge Interfacial Layer Dependent on Al ₂ O ₃ Thickness. <i>ECS Solid State Letters</i> , 2012, 1, P32-P34.	1.4	15
33	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
34	Probing the magnetoelectric response and energy efficiency in Fe ₃ O ₄ /epoxy nanocomposites. <i>Polymer Testing</i> , 2020, 88, 106560.	4.8	15
35	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
36	Nd-Fe-B thick films prepared by screen printing. <i>IEEE Transactions on Magnetics</i> , 2005, 41, 3901-3903.	2.1	12

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37	Micro-motor with screen-printed rotor magnets. Journal of Magnetism and Magnetic Materials, 2007, 316, e120-e123.	2.3	12
38	Experimental investigation of metallic thin film modification of nickel substrates for chemical vapor deposition growth of single layer graphene at low temperature. Applied Surface Science, 2016, 385, 554-561.	6.1	12
39	Carbon nanotube Schottky type photodetectors for UV applications. Solid-State Electronics, 2019, 151, 27-35.	1.4	12
40	Magnetic anisotropy phase-graded Al/L10-FePt films on amorphous glass substrates. Materials and Design, 2017, 123, 147-153.	7.0	11
41	Evaluating the multifunctional performance of polymer matrix nanodielectrics incorporating magnetic nanoparticles: A comparative study. Polymer, 2021, 236, 124311.	3.8	10
42	Multitasking Performance of Fe3O4/BaTiO3/Epoxy Resin Hybrid Nanocomposites. Materials, 2022, 15, 1784.	2.9	10
43	Polarity of anomalous Hall effect hysteresis loops in [Pt ⁵ Co] ₁₅ AF ⁵ [Co ⁵ Pt] ₁₅ (AF=FeMn, NiO) multilayers with perpendicular anisotropy. Journal of Applied Physics, 2005, 97, 013901.	2.5	9
44	High Layer Uniformity of Two-Dimensional Materials Demonstrated Surprisingly from Broad Features in Surface Electron Diffraction. Journal of Physical Chemistry Letters, 2020, 11, 8937-8943.	4.6	9
45	Effect of post deposition annealing on the hysteresis loops of sputtered NdFeB films. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E877-E879.	2.3	8
46	Magnetotransport properties of cobalt-iron pyrite films. Thin Solid Films, 2008, 516, 2078-2081.	1.8	8
47	Disposable micro-fabricated electrochemical bismuth sensors for the determination of Tl(I) by stripping voltammetry. Procedia Chemistry, 2009, 1, 1039-1042.	0.7	8
48	Electronic band structure imaging of three layer twisted graphene on single crystal Cu(111). Applied Physics Letters, 2013, 103, 213108.	3.3	8
49	Structural and magnetic properties of L10/Al, FePt nanocomposites. Journal of Magnetism and Magnetic Materials, 2013, 325, 75-81.	2.3	8
50	Fabrication and high-resolution electron microscopy study of FePt L1 ₀ /Al graded exchange spring media. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 1305-1310.	1.8	8
51	Effect of ZnO Nanoparticles on the Dielectric/Electrical and Thermal Properties of Epoxy-Based Nanocomposites. Science of Advanced Materials, 2015, 7, 588-597.	0.7	8
52	Aqueous base developable: easy stripping, high aspect ratio negative photoresist for optical and proton beam lithography. Microsystem Technologies, 2008, 14, 1423-1428.	2.0	7
53	Disposable microfabricated bismuth microelectrode arrays for trace metal analysis by stripping voltammetry. Procedia Engineering, 2011, 25, 880-883.	1.2	7
54	High performance n+/p and p+/n germanium diodes at low-temperature activation annealing. Microelectronic Engineering, 2011, 88, 254-261.	2.4	7

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55	Nanometer-Thick Bismuth Nanocrystal Films for Sensoric Applications. ACS Applied Nano Materials, 2020, 3, 9669-9678.	5.0	7
56	Characteristics of MOS diodes fabricated using sputter-deposited W or Cu/W films. Microelectronic Engineering, 2006, 83, 1434-1437.	2.4	6
57	Effect of deposition pressure and post deposition annealing on SmCo thin film properties. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 3759-3762.	0.8	6
58	Deposition of hard magnetic SmCo ₅ thin films by magnetron sputtering. Journal of Physics: Conference Series, 2005, 10, 175-177.	0.4	5
59	Ledge-type Co/L1-FePt exchange-coupled composites. Journal of Applied Physics, 2016, 119, .	2.5	5
60	ZnO nanorod growth based on a low-temperature silicon-compatible combinatorial method. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 3809-3812.	0.8	4
61	TiO ₂ Affinity Chromatography Microcolumn on Si Substrates for Phosphopeptide Analysis. Procedia Engineering, 2011, 25, 717-720.	1.2	4
62	Phosphopeptide enrichment and separation in an affinity microcolumn on a silicon microchip: Comparison of sputtered and wet-deposited TiO ₂ stationary-phase. Sensors and Actuators B: Chemical, 2013, 188, 1073-1079.	7.8	4
63	Graphite-Nimonic Alloy Brazing. Advanced Materials Research, 0, 59, 209-213.	0.3	3
64	Incoherent interaction of propagating spin waves with precessing magnetic moments. Physical Review B, 2010, 81, .	3.2	3
65	Scaling of Hall coefficient in Co-Bi granular thin films. EPJ Web of Conferences, 2013, 40, 12002.	0.3	3
66	Anomalous Hall Effect in a Magnetic Topological Insulator (BiMn) ₂ Te ₃ . IEEE Transactions on Magnetics, 2019, 55, 1-6.	2.1	3
67	A UV photodetector based on ordered free standing MWCNT. Journal of Instrumentation, 2020, 15, C01015-C01015.	1.2	3
68	Preparation of Nd-Fe-B Magnets by Screen Printing. Journal of Iron and Steel Research International, 2006, 13, 405-410.	2.8	2
69	Magneto-transport properties of [Co/Bi] _n wire structures. Journal of Magnetism and Magnetic Materials, 2008, 320, e720-e724.	2.3	2
70	Growth and characterization of uniform ZnO films as piezoelectric materials using a hydrothermal growth technique. Proceedings of SPIE, 2011, , .	0.8	2
71	Magnetization Dynamics in Vortex-Imprinted Ni ₈₀ Fe ₂₀ /Ir ₂₀ Mn ₈₀ Square Elements. IEEE Magnetics Letters, 2012, 3, 3500204-3500204.	1.1	2
72	Development and characterization of multifunctional yttrium iron garnet/epoxy nanodielectrics. Journal of Thermal Analysis and Calorimetry, 2020, 142, 1701-1708.	3.6	2

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73	Structural and magnetotransport characterization of magnetron sputtered co-doped Bi ₂ Te ₃ thin films. Journal of Magnetism and Magnetic Materials, 2020, 511, 166971.	2.3	2
74	Magnetization Process in Vortex-imprinted Ni ₈₀ Fe ₂₀ /Ir ₂₀ Mn ₈₀ Square Elements. Journal of Magnetism, 2011, 16, 83-87.	0.4	2
75	Micrometer thick Sm-Co films for applications on flexible systems. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2022, 280, 115691.	3.5	2
76	Implementation of hard magnetic thin films on suspended cantilevers for electromagnetic energy harvesters. , 2007, , .		1
77	Exchange bias in ferromagnetic/antiferromagnetic submicron structures. Microelectronic Engineering, 2007, 84, 1536-1539.	2.4	1
78	Large magnetoresistance in [Co(1nm)/Bi(2.5nm)] ₁₀ line structures. Microelectronic Engineering, 2009, 86, 1050-1053.	2.4	1
79	Tailoring exchange bias in magnetic nanostructures. Microelectronic Engineering, 2009, 86, 1063-1066.	2.4	1
80	Current pulse induced toggle switching of dual-vortex magnetization in Ni ₈₀ Fe ₂₀ /Cu/Co nanopillar element. Journal of Applied Physics, 2012, 112, .	2.5	1
81	Magnetic and magnetoelastic properties of the TbDyFeCo system. Microelectronic Engineering, 2012, 90, 149-151.	2.4	1
82	Quantum interference effects in [Co/Bi] _n thin films. EPJ Web of Conferences, 2014, 75, 01002.	0.3	1
83	Scaling of magnetotransport properties in granular Co(c=0.8)Bi(1~c) thin films. Applied Surface Science, 2015, 334, 45-51.	6.1	1
84	MANOS performance dependence on ALD Al ₂ O ₃ oxidation source. Microelectronic Engineering, 2016, 159, 127-131.	2.4	1
85	Magnetic nanoparticles in polymer matrix nanodielectrics: Manufacturing, characterization and functionality. Materials Today: Proceedings, 2018, 5, 27491-27499.	1.8	1
86	Villari magnetomechanical coupling at hcp-Cobalt thin films on flexible substrates. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 264, 114945.	3.5	1
87	Magneto-Electric Response and Functionality in Barium Ferrite/Barium Titanate/Epoxy Resin Nanocomposites. Journal of Advanced Physics, 2017, 6, 69-75.	0.4	1
88	Magnetic-field-free spin-orbit torque-driven magnetization dynamics in CoFeB/β ² -W-based nanoelements. AIP Advances, 2022, 12, .	1.3	1
89	Extraordinary Hall effect in (, FeMn) multilayers with perpendicular anisotropy. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 1056-1058.	2.3	0
90	Thermal Characterization of Porous Silicon Micro-Hotplates using IR Thermography. , 2007, , .		0

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91	Effect of magnetic field on metal-insulator transitions in Bi-wire structures. Microelectronic Engineering, 2007, 84, 1528-1531.	2.4	0
92	Evaluation of a gas flow sensor implemented on organic substrate. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 3839-3842.	0.8	0
93	Efficient infrared emission from patterned thin metal films on a Si photonic crystal. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 2581-2584.	1.8	0
94	Efficient infrared emission from periodically patterned thin metal films on a Si photonic crystal. Microelectronic Engineering, 2008, 85, 1112-1115.	2.4	0
95	Large asymmetries of magnetoresistance loops in Co-line structures. Microelectronic Engineering, 2008, 85, 1382-1385.	2.4	0
96	Metal-induced low temperature activation and passivation of germanium N ⁺ /P and P ⁺ /N Junctions. , 2009, , .		0
97	Initial Stages of Thermally and Hot-Wire Assisted CVD Copper on SiLK [®] and LTO Substrates Activated with Mercaptopropyl Triethoxysilane Self-Assembled Monolayers. ECS Transactions, 2009, 25, 893-899.	0.5	0
98	Exchange bias and negative magnetoresistance in [Co/Bi/Co]/IrMn thin films]. Journal of Magnetism and Magnetic Materials, 2010, 322, 65-68.	2.3	0
99	Fluorescence enhancement from plasmonic Au templates. Microelectronic Engineering, 2011, 88, 1845-1848.	2.4	0
100	Influence of thermal oxidation on the interfacial properties of ultrathin strained silicon layers. Thin Solid Films, 2011, 519, 5456-5463.	1.8	0
101	Study of microstructure and magnetic properties of L10FePt/SiO ₂ thin films. EPJ Web of Conferences, 2014, 75, 06014.	0.3	0
102	Microwave exposure as a fast and cost-effective alternative of oxygen plasma treatment of indium-tin oxide electrode for application in organic solar cells. Journal Physics D: Applied Physics, 2017, 50, 505105.	2.8	0
103	Magnetotransport properties of nanogranular Bi and Co(c=0.2)Bi(1-c) thin films. Journal of Physics: Conference Series, 2017, 903, 012037.	0.4	0
104	Coherent Magnetization Dynamics in Ni ₈₀ Fe ₂₀ Thin Films Incorporated in Fe/Au Spintronic Terahertz Emitters. IEEE Transactions on Magnetics, 2021, 57, 1-4.	2.1	0