

# Dimitri Arvanitis

## List of Publications by Year in descending order

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112  
papers

3,241  
citations

147726

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114  
docs citations

114  
times ranked

2766  
citing authors

#	ARTICLE	IF	CITATIONS
1	Full correction of the self-absorption in soft-fluorescence extended x-ray-absorption fine structure. <i>Physical Review B</i> , 1992, 46, 3283-3289.	1.1	424
2	Enhancement of Orbital Magnetism at Surfaces: Co on Cu(100). <i>Physical Review Letters</i> , 1995, 75, 1602-1605.	2.9	216
3	Determination of bond lengths, atomic mean-square relative displacements, and local thermal expansion by means of soft-x-ray photoabsorption. <i>Physical Review B</i> , 1994, 49, 888-903.	1.1	128
4	Structural determination of an adsorbate-induced surface reconstruction: $\text{p}4\text{g}(2\text{\AA}-2)\text{N}$ versus $\text{c}(2\text{\AA}-2)\text{O}$ on Ni(100). <i>Physical Review B</i> , 1987, 36, 7689-7692.	1.1	127
5	Influence of Ligand States on the Relationship between Orbital Moment and Magnetocrystalline Anisotropy. <i>Physical Review Letters</i> , 2007, 99, 177207.	2.9	124
6	Identification of $\text{C}\text{\AA}^{\text{H}}$ resonances in the K-shell excitation spectra of gas-phase, chemisorbed, and polymeric hydrocarbons. <i>Physical Review B</i> , 1987, 36, 2976-2979.	1.1	121
7	Experimental study of the chemisorbed state of $\text{C}_2\text{H}_2$ , $\text{C}_2\text{H}_4$ , and $\text{C}_2\text{H}_6$ on noble-metal surfaces. <i>Physical Review Letters</i> , 1986, 57, 3175-3178.	2.9	103
8	Position of the $\text{f}$ -shape and $\text{e}$ resonances of $\text{C}_2\text{H}_2$ , $\text{C}_2\text{H}_4$ and $\text{C}_2\text{H}_6$ on Cu(100) at 60 K: A NEXAFS study. <i>Surface Science</i> , 1986, 178, 686-692.	0.8	94
9	Adsorption of oxygen on Cu(100). I. Local structure and dynamics for two atomic chemisorption states. <i>Physical Review B</i> , 1993, 48, 15390-15404.	1.1	90
10	$\text{C}_6\text{O}$ on Al(111): Covalent bonding and surface reconstruction. <i>Physical Review B</i> , 1995, 52, R5546-R5549.	1.1	75
11	Ac susceptibility measurements of magnetic monolayers: MCXD, MOKE, and mutual inductance. <i>Journal of Magnetism and Magnetic Materials</i> , 1995, 146, 256-266.	1.0	71
12	Direct Evidence of a Stretched C-C Distance for $\text{C}_2\text{H}_2$ and $\text{C}_2\text{H}_4$ on Cu(100) at 60 K. <i>Physical Review Letters</i> , 1987, 59, 2435-2438.	2.9	68
13	Enhanced anharmonicity in the interaction of low-Z adsorbates with metal-surfaces. <i>Physical Review Letters</i> , 1990, 64, 1765-1768.	2.9	63
14	Structural determination of $\text{c}(2\text{\AA}-2)\text{N}/\text{Cu}(100)$ : A multiple-scattering surface-EXAFS study. <i>Physical Review B</i> , 1993, 48, 11277-11286.	1.1	62
15	Ratio of orbital-to-spin magnetic moment in Co core-shell nanoparticles. <i>Physical Review B</i> , 2003, 68, .	1.1	62
16	An angle-dependent magnetic circular X-ray dichroism study of Co/Cu(100): experiment versus theory. <i>Journal of Physics Condensed Matter</i> , 1995, 7, 1111-1119.	0.7	57
17	Local bonding geometry of $\text{O}(2\text{\AA}-1)$ on Ni(110): A surface extended x-ray-absorption fine-structure study. <i>Physical Review B</i> , 1986, 33, 5910-5913.	1.1	54
18	Temperature dependent MCXD measurements of thin Ni films on Cu(100). <i>Surface Science</i> , 1994, 307-309, 1096-1101.	0.8	52

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19	High resolution x-ray absorption spectroscopy of linear hydrocarbons adsorbed on noble metal surfaces. <i>Journal of Chemical Physics</i> , 1992, 96, 1560-1573.	1.2	49
20	Critical Line for Strong Irreversibility in Spin-Glass and Ferro-Spin-Glass Alloys. <i>Physical Review Letters</i> , 1983, 51, 57-60.	2.9	44
21	Carbon K-edge structure of chemisorbed molecules by means of fluorescence detection. <i>Surface Science</i> , 1986, 177, 114-120.	0.8	44
22	Adsorption of oxygen on Cu(100). II. Molecular adsorption and dissociation by means of OK-edge x-ray-absorption fine structure. <i>Physical Review B</i> , 1993, 48, 15405-15416.	1.1	44
23	Homogeneous and heterogeneous magnetism in (Zn,Co)O: From a random antiferromagnet to a dipolar superferromagnet by changing the growth temperature. <i>Physical Review B</i> , 2013, 88, .	1.1	43
24	Modifications of the electronic and magnetic properties of ultrathin Ni/Cu(100) films induced by stepwise oxidation. <i>Physical Review B</i> , 1996, 53, 1076-1079.	1.1	38
25	Intramolecular resonances after K-shell excitation of C <sub>2</sub> H <sub>2</sub> n adsorbed on Ag and Cu(100) surfaces. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1989, 11, 219-229.	1.0	35
26	Shape Resonances of Oriented Molecules: ab initio Theory and Experiment on Hydrocarbon Molecules. <i>Physical Review Letters</i> , 2000, 84, 614-617.	2.9	35
27	Comparative study of fluorescence- and electron-yield detection on YB <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> at the OK edge through x-ray absorption. <i>Physical Review B</i> , 1990, 41, 7297-7300.	1.1	33
28	Magnetism of thin Fe films on Cu(100). <i>Physical Review B</i> , 1996, 54, R11157-R11160.	1.1	33
29	Molecular geometry modifications upon adsorption for N <sub>2</sub> O: N and O K-edge NEXAFS. <i>Surface Science</i> , 2001, 482-485, 15-20.	0.8	33
30	Vibrational Anisotropy and Anharmonicity of N Atoms Bonded to Ni(100). <i>Physical Review Letters</i> , 1988, 60, 2327-2330.	2.9	32
31	Self-Organized Hexagonal Patterns of Independent Magnetic Nanodots. <i>Advanced Materials</i> , 2007, 19, 4375-4380.	11.1	32
32	Multiple-scattering effects in surface extended x-ray absorption fine structure. <i>Physical Review B</i> , 1988, 37, 7143-7146.	1.1	31
33	Rydberg and multiple-electron excitations in x-ray photoabsorption spectra of N <sub>2</sub> adsorbed on Fe(111). <i>Physical Review B</i> , 1989, 40, 6409-6412.	1.1	30
34	Enantiospecific Spin Polarization of Electrons Photoemitted Through Layers of Homochiral Organic Molecules. <i>Advanced Materials</i> , 2014, 26, 7474-7479.	11.1	28
35	Triad anisotropy of spin glasses and torque experiments (invited). <i>Journal of Applied Physics</i> , 1984, 55, 1640-1645.	1.1	25
36	The Vibrational Fine Structure of Chemisorbed C <sub>2</sub> H <sub>4</sub> Molecules in the (1s-1, ĩ€*) State. <i>Physica Scripta</i> , 1990, T31, 131-136.	1.2	25

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37	Cap layer influence on the spin reorientation transition in Au/Co/Au. <i>Physical Review B</i> , 2002, 66, .	1.1	24
38	Description of the new I1011 beamline for magnetic measurements using synchrotron radiation at MAX-lab. <i>Journal of Physics: Conference Series</i> , 2010, 211, 012030.	0.3	23
39	A study of the self-absorption effect in the fluorescence yield of NiO at the oxygen K-edge. <i>Solid State Communications</i> , 1992, 82, 1-5.	0.9	21
40	Characterization of two different adsorption states for O on Cu(100). Ionic versus covalent bonding. <i>Chemical Physics Letters</i> , 1993, 211, 53-59.	1.2	21
41	Local magnetism of Co monolayers: A new type of magnetic circular x-ray dichroism measurement. <i>Journal of Magnetism and Magnetic Materials</i> , 1994, 135, L1-L6.	1.0	21
42	Initial and final state effects in the x-ray absorption process of $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ . <i>Physical Review B</i> , 2003, 68, .	1.1	21
43	Towards a new class of heavy ion doped magnetic semiconductors for room temperature applications. <i>Scientific Reports</i> , 2015, 5, 17053.	1.6	19
44	Quantitative Fluorescence EXAFS Analysis of Concentrated Samples—Correction of the Self-Absorption Effect. <i>Japanese Journal of Applied Physics</i> , 1993, 32, 144.	0.8	19
45	Bond length and adsorbate vibrations of $(2\text{Å}-3)\text{N}/\text{Cu}(110)$ : A SEXAFS study. <i>Physical Review B</i> , 1996, 54, 5920-5926.	1.1	18
46	Evidence for photoelectron backscattering by interstitial charge densities. <i>Journal of Physics Condensed Matter</i> , 1997, 9, L427-L433.	0.7	18
47	How to change or remove the anisotropy of spin glasses, with some other reflections on the anisotropy problem. <i>Journal De Physique (Paris), Lettres</i> , 1983, 44, 345-350.	2.8	18
48	Adsorbate-substrate bonding and dynamics as determined by SEXAFS. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1995, 75, 149-159.	0.8	15
49	Structure and magnetism of ultrathin epitaxial Fe on Ag(100). <i>Physical Review B</i> , 2006, 73, .	1.1	15
50	Soft Room-Temperature Ferromagnetism of Carbon-Implanted Amorphous $\text{Fe}_{93}\text{Zr}_7$ Films. <i>Applied Physics Express</i> , 2013, 6, 053001.	1.1	15
51	High resolution photoabsorption spectroscopy at the carbon K-Edge. <i>Applied Physics A: Solids and Surfaces</i> , 1989, 49, 393-397.	1.4	14
52	Magnetic extended x-ray absorption fine structure at the edges of 3d elements. <i>Journal of Physics Condensed Matter</i> , 1998, 10, 1917-1930.	0.7	14
53	The resonance and its vibrational broadening of unperturbed and adsorbed $\text{C}_2\text{H}_4$ molecules. <i>Surface Science</i> , 1992, 269-270, 270-275.	0.8	13
54	Element-specific characterization of heterogeneous magnetism in (Ga,Fe)N films. <i>Physical Review B</i> , 2012, 85, .	1.1	13

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55	Quantitative analysis of the NEXAFS for chemisorbed C <sub>2</sub> H <sub>4</sub> molecules. Physica Scripta, 1990, 41, 846-849.	1.2	12
56	Alkali-metal-induced bond length contraction of acetonitrile (CH <sub>3</sub> CN) on Au(100). Chemical Physics Letters, 1993, 201, 108-114.	1.2	12
57	Ultrathin Co films on flat and vicinal Cu(111) surfaces: per atom determination of orbital and spin moments. Journal of Physics Condensed Matter, 2003, 15, S573-S586.	0.7	12
58	Vanishing Magnetic Interactions in Ferromagnetic Thin Films. Physical Review Letters, 2005, 94, 217202.	2.9	12
59	Core-level spectroscopy of physisorbed ethylene: Symmetry of electronic excitations and molecular orientations. Physical Review B, 1992, 45, 1518-1521.	1.1	11
60	Bonding on Surfaces: The SEXAFS Point of View. Japanese Journal of Applied Physics, 1993, 32, 337.	0.8	11
61	Imaging of magnetic nanodots on self-organized semiconductor substrates. Physical Review B, 2005, 71, .	1.1	11
62	Experimental determination of orbital and spin moments from MCD on 3d metal overlayers. , 1996, , 145-157.		10
63	Direct observation of frozen moments in the NiFe/FeMn exchange bias system. New Journal of Physics, 2013, 15, 033016.	1.2	10
64	The Adsorption of O <sub>2</sub> Molecules on Cu(100): Evidence for Enhanced Disorder and Anharmonicity. Japanese Journal of Applied Physics, 1993, 32, 371.	0.8	9
65	Improved Distance Determination in Oxygen EXAFS: Soft X-ray Fluorescence Measurements versus Theoretical Standards. Japanese Journal of Applied Physics, 1993, 32, 137.	0.8	9
66	Shape resonances of oriented molecules. Journal of Electron Spectroscopy and Related Phenomena, 2000, 113, 57-65.	0.8	9
67	Experimental investigation of the spin reorientation of $\text{Co}$ magnetic nanodot arrays. Physical Review B, 2008, 77, .	1.1	9
68	Structural and magnetic properties of the molecular beam epitaxy grown MnSb layers on GaAs substrates. Journal of Applied Physics, 2009, 106, .	1.1	9
69	On the interface magnetism of thin oxidized Co films: orbital and spin moments. Journal of Physics Condensed Matter, 2009, 21, 124211.	0.7	9
70	A comparison of low-Z EXAFS experiment and ab initio calculations. Journal of Physics Condensed Matter, 1993, 5, 6845-6856.	0.7	8
71	Influence of Source Coherence on X-Ray Absorption Spectroscopy. Physical Review Letters, 2000, 84, 1031-1034.	2.9	8
72	Soft X-ray magnetic circular dichroism in Fe and Fe <sub>0.50</sub> Co <sub>0.48</sub> V <sub>0.02</sub> films: quantitative analysis of transmission. European Physical Journal B, 2001, 23, 441-448.	0.6	8

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73	Elliptically polarised soft x-rays produced using a local bump in MAX II " Characterisation of the degree of polarisation. AIP Conference Proceedings, 2004, , .	0.3	7
74	Magnetic ordering in an (Fe <sub>0.2</sub> Cr <sub>0.8</sub> ) <sub>1.5</sub> [Cr(CN) <sub>6</sub> ] Prussian blue analogue studied with synchrotron radiation based spectroscopies. Journal of Materials Chemistry C, 2018, 6, 8171-8186.	2.7	7
75	A NEW TECHNIQUE FOR SUBMONOLAYER NEXAFS : FLUORESCENCE YIELD AT THE CARBON K EDGE. Journal De Physique Colloque, 1986, 47, C8-173-C8-178.	0.2	7
76	Magnetic extended x-ray absorption fine structure at the L <sub>3,2</sub> edges of Fe and Co on Cu(001). Journal of Applied Physics, 1998, 83, 7025-7027.	1.1	6
77	Photoinduced effects on the magnetic properties of the (Fe <sub>0.2</sub> Cr <sub>0.8</sub> ) <sub>1.5</sub> [Cr(CN) <sub>6</sub> ] Prussian blue analogue. Journal of Materials Chemistry C, 2019, 7, 2305-2317.	2.7	6
78	XANES Studies of Mn K and L <sub>3,2</sub> Edges in the (Ga, Mn)As Layers Modified by High Temperature Annealing. Acta Physica Polonica A, 2008, 114, 357-366.	0.2	6
79	Rydberg and multiple electron excitations of N <sub>2</sub> adsorbed on Fe(111): a NEXAFS study. Physica Scripta, 1990, 41, 1028-1030.	1.2	5
80	Growth of SiC by PVT method in the presence of cerium dopant. Journal of Crystal Growth, 2013, 377, 88-95.	0.7	5
81	Soft x-ray absorption spectroscopy on Co doped ZnO: structural distortions and electronic structure. Journal of Physics: Conference Series, 2016, 712, 012104.	0.3	5
82	Anomaly of the oxygen local environment in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> around T <sub>c</sub> . Solid State Communications, 1991, 79, 479-482.	0.9	4
83	Pair potentials in the SEXAFS analysis. Physica B: Condensed Matter, 1995, 208-209, 431-435.	1.3	4
84	High-resolution X-ray absorption spectra of the resonance of N <sub>2</sub> directly physisorbed on Cu(100). Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 467-468, 1560-1563.	0.7	4
85	A circularly polarized X-ray study of the temperature-dependent spin-reorientation transition of thin Co films. Journal of Magnetism and Magnetic Materials, 2001, 226-230, 1675-1677.	1.0	4
86	Spin and orbital moments in Au/Co/Au()/W() across the spin-reorientation transition-temperature. Nuclear Instruments & Methods in Physics Research B, 2003, 200, 210-214.	0.6	4
87	Study of the Local Environment of Mn Ions Implanted in GaSb. Acta Physica Polonica A, 2010, 117, 286-292.	0.2	4
88	Local magnetism and element specific susceptibility for (100). Vacuum, 1995, 46, 1211-1214.	1.6	3
89	Magnetic circular X-ray dichroism of metastable epitaxial Fe on Cu(1 0 0). Journal of Magnetism and Magnetic Materials, 1999, 196-197, 120-122.	1.0	3
90	Surface EXAFS study of the p <sub>4g</sub> (2 $\bar{2}$ ) reconstruction of C on Ni(100) and C on Ni films. Surface Science, 2000, 465, 187-197.	0.8	3

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91	Magnetic X-ray circular dichroism on in situ grown 3d magnetic thin films on surfaces. Journal of Synchrotron Radiation, 2001, 8, 120-124.	1.0	3
92	Ultrathin Co films on flat and stepped Cu(111) surfaces: Determination of per atom orbital and spin moments. Journal of Applied Physics, 2002, 91, 6881.	1.1	3
93	Correlation of magnetism and structure for ultra thin Au/Co/Au films: Evidence for magnetoelastic effects. Journal of Physics: Conference Series, 2009, 190, 012113.	0.3	3
94	Structural and magnetic properties of Mn+ implanted silicon crystals studied using X-ray absorption spectroscopy techniques. Radiation Physics and Chemistry, 2011, 80, 1119-1124.	1.4	3
95	Structural and magnetic properties of nickel antimony ferros spinels. Materials Chemistry and Physics, 2015, 158, 127-137.	2.0	3
96	Enantiosensitive Bonding of Chiral Molecules on a Magnetic Substrate Investigated by Means of Electron Spectroscopies. Chimia, 2018, 72, 418.	0.3	3
97	Wenzelet al. reply. Physical Review Letters, 1990, 65, 1522-1522.	2.9	2
98	Multiple scattering effects in low Z SEXAFS. Physica B: Condensed Matter, 1989, 158, 651-652.	1.3	1
99	In Situ Magnetic-Circular-X-Ray-Dichroism Measurements: An Epitaxial Fe Wedge on Cu(100). MRS Bulletin, 1999, 24, 41-45.	1.7	1
100	On the temperature dependence of multiple- and single-scattering contributions in magnetic EXAFS. AIP Conference Proceedings, 2000, , .	0.3	1
101	Vibrational fine structure in the N 1s $\pi^*$ resonance of the N <sub>2</sub> molecule physisorbed on the Cu(100) surface. Surface Science, 2000, 448, 261-268.	0.8	1
102	12th X-ray Absorption Fine Structure International Conference (XAFS12). Physica Scripta, 2005, T115, 17-17.	1.2	1
103	Enantiopure Supramolecular Motifs of Self-Assembled Diamine-Based Chiral Molecules on Cu(100). Journal of Physical Chemistry C, 2018, 122, 24129-24136.	1.5	1
104	Stable antiferromagnetic nanocrystals for room temperature applications: the case of iron nitride. Journal of Materials Chemistry C, 2019, 7, 9474-9480.	2.7	1
105	Adsorbate-induced reconstruction on transition-metal and noble-metal surfaces. Physica B: Condensed Matter, 1989, 158, 634-636.	1.3	0
106	Carbon-carbon EXAFS for chemisorbed hydrocarbons on a metal substrate. Physica B: Condensed Matter, 1989, 158, 649-650.	1.3	0
107	Local dynamics and local thermal expansion around light elements in the bulk and on surfaces. Physica B: Condensed Matter, 1995, 208-209, 267-268.	1.3	0
108	Quantitative analysis of L-edge white line intensities: the influence of saturation and transverse coherence. Journal of Synchrotron Radiation, 2001, 8, 437-439.	1.0	0

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109	Magnetisation reorientation in ultra-thin Fe films on Cu(100) upon deposition of Co. Journal of Synchrotron Radiation, 2001, 8, 463-465.	1.0	0
110	Structure and magnetism on in situ ultrathin epitaxial films: XMCD and EXAFS on Fe/Ag(). Surface Science, 2003, 532-535, 76-81.	0.8	0
111	Local structure of monodisperse Co nanoparticles. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E1207-E1209.	1.0	0
112	Spintronics: Enantiospecific Spin Polarization of Electrons Photoemitted Through Layers of Homochiral Organic Molecules (Adv. Mater. 44/2014). Advanced Materials, 2014, 26, 7531-7531.	11.1	0