Alexandros Lappas

List of Publications by Year
in descending order

111	2,468	201674	223800
papers	citations	27 h-index	46 g-index

117	117	117	3526
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Antibacterial Surface Coatings from Zinc Oxide Nanoparticles Embedded in Poly(Nâ€isopropylacrylamide) Hydrogel Surface Layers. Advanced Functional Materials, 2012, 22, 2376-2386.	14.9	203
2	Multiferroicity and hydrogen-bond ordering in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mrow><mml:mo>(</mml:mo><mml:mrow><mml:msub><mml:mtext>C< Physical Review B, 2010, 81, .	3.2	145
3	Spontaneous Magnetic Ordering in the Fullerene Charge-Transfer Salt (TDAE)C60. Science, 1995, 267, 1799-1802.	12.6	113
4	Magnetically Recoverable Catalysts Based on Polyphenylenepyridyl Dendrons and Dendrimers. RSC Advances, 2014, 4, 23271.	3.6	85
5	A neutron diffraction study of alkali cation migration in montmorillonites. Physics and Chemistry of Minerals, 2008, 35, 49-58.	0.8	79
6	Assembly-mediated interplay of dipolar interactions and surface spin disorder in colloidal maghemite nanoclusters. Nanoscale, 2014, 6, 3764-3776.	5.6	79
7	Isolation, Structure, and Electronic Calculations of the Heterofullerene Salt K6C59N. Science, 1996, 271, 1833-1835.	12.6	75
8	Magnetoelastic Coupling and Symmetry Breaking in the Frustrated Antiferromagnet<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î±</mml:mi><mml:mtext mathvariant="normal">â^'</mml:mtext><mml:msub><mml:mi>NaMnO</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2007, 99, 247211.	7.8	75
9	Conducting phase of rapidly cooledAC60(A=Cs and Rb). Physical Review B, 1995, 51, 12018-12021.	3.2	68
10	Ferrimagnetic nanocrystal assemblies as versatile magnetic particle hyperthermia mediators. Materials Science and Engineering C, 2016, 58, 187-193.	7.3	68
11	Low-temperature benchtop-synthesis of all-inorganic perovskite nanowires. Nanoscale, 2017, 9, 18202-18207.	5.6	65
12	One-Dimensional Magnetic Fluctuations in the Spin-2 Triangular LatticeÎ±â^'NaMnO2. Physical Review Letters, 2009, 103, 077202.	7.8	63
13	Multiple Twinning As a Structure Directing Mechanism in Layered Rock-Salt-Type Oxides: NaMnO₂ Polymorphism, Redox Potentials, and Magnetism. Chemistry of Materials, 2014, 26, 3306-3315.	6.7	56
14	Colloidal magnetic nanocrystal clusters: variable length-scale interaction mechanisms, synergetic functionalities and technological advantages. Nanotechnology Reviews, 2015, 4, .	5.8	55
15	Magnetic Ordering in the Ammoniated Fulleride (ND3)K3C60. Journal of the American Chemical Society, 1999, 121, 11227-11228.	13.7	53
16	Superconductivity inLixCsC60fullerides. Physical Review B, 1999, 59, R6628-R6630.	3.2	50
17	Nanoscale Encapsulation of Molybdenum Carbide in Carbon Clusters. Chemistry of Materials, 1996, 8, 6-8.	6.7	45
18	Magnetic behavior of a two-leg organic spin-ladder compound. Physical Review B, 1999, 60, 4191-4194.	3.2	44

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19	Orientational Disorder of C60 in Li2CsC60. Science, 1994, 264, 1294-1297.	12.6	40
20	Coupled Commensurate Cation and Charge Modulation in the Tunneled Structure, Na_{0.40(2)}MnO₂. Journal of the American Chemical Society, 2011, 133, 13950-13956.	13.7	39
21	Magnetic ordering in the rutile molecular magnetsMII[N(CN)2]2(M=Ni,Co, Fe,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 662 Td (M	3.2	38
22	Frustration-induced nanometre-scale inhomogeneity in a triangular antiferromagnet. Nature Communications, 2014, 5, 3222.	12.8	37
23	An Orientationally-Ordered Primitive-Cubic Form of the Fulleride CsC60. Journal of the American Chemical Society, 1995, 117, 7560-7561.	13.7	35
24	Colloidal assemblies of oriented maghemite nanocrystals and their NMR relaxometric properties. Dalton Transactions, 2014, 43, 8395-8404.	3.3	35
25	Magnetic Structure of the Oxygen-Deficient Perovskite YBaCuFeO5+.delta.. Inorganic Chemistry, 1994, 33, 1255-1258.	4.0	31
26	Crystal Structure of the Higher Fullerene C84. Chemistry of Materials, 1998, 10, 1742-1744.	6.7	31
27	Magnetic interactions in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Î±</mml:mi><mml:mtext>â^'</mml:mtext><mml:mi mathvariant="normal">Na</mml:mi><mml:mi mathvariant="normal">Mn</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>: Quantum spin-2 system on a spatially anisotropic two-dimensional triangular lattice. Physical Review B, 2008, 77, .	3.2	31
28	Colloidal Anisotropic ZnOâ€“Fe@FexOy Nanoarchitectures with Interface-Mediated Exchange-Bias and Band-Edge Ultraviolet Fluorescence. Chemistry of Materials, 2012, 24, 2722-2732.	6.7	27
29	Low-Energy Magnetic Excitations and Morphology in Layered Hybrid Perovskiteâ^'Poly(dimethylsiloxane) Nanocomposites. Chemistry of Materials, 2005, 17, 1199-1207.	6.7	26
30	mu+SR study of zero-field magnetic ordering in CsC60. Journal of Physics Condensed Matter, 1995, 7, L567-L573.	1.8	25
31	Magnetoelastic coupling in the frustrated antiferromagnetic triangular lattice<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>CuMnO</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:m Physical Review B, 2010, 82, .	3.2	25
32	Structural, electronic, and magnetic properties of nanometer-sized iron-oxide atomic clusters: Comparison between GGA and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mtext>GGA</mml:mtext><mml:mo>+</mml:mo><mml:mtext>U</mml:mtext></mml:mrow></mml: Physical Review B, 2010, 81, .	3.2	24
33	Pressure and Temperature Evolution of the Structure of the Superconducting Na2CsC60 Fulleride. Journal of Solid State Chemistry, 1999, 145, 471-478.	2.9	23
34	Magnetic Ordering in SmNi ₂ B ₂ C. Europhysics Letters, 1995, 29, 641-646.	2.0	22
35	Impurity-induced antiferromagnetic order in the Haldane-gap compoundPbNi2â^'xMgxV2O8(x=0.24). Physical Review B, 2002, 66, .	3.2	21
36	Substitution Effect on the Interplane Coupling in Crednerite: the Cu_{1.04}Mn_{0.96}O₂ Case. Chemistry of Materials, 2011, 23, 85-94.	6.7	21

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37	Hydrophobic Periphery Tails of Polyphenylenepyridyl Dendrons Control Nanoparticle Formation and Catalytic Properties. Chemistry of Materials, 2014, 26, 5654-5663.	6.7	20
38	Iron Oxide Colloidal Nanoclusters as Theranostic Vehicles and Their Interactions at the Cellular Level. Nanomaterials, 2018, 8, 315.	4.1	20
39	Organicâ€“inorganic perovskites for magnetic nanocomposites. Physica B: Condensed Matter, 2002, 318, 387-391.	2.7	19
40	Magnetic iron oxide nanoclusters with tunable optical response. Photonics and Nanostructures - Fundamentals and Applications, 2011, 9, 201-206.	2.0	19
41	Magnetic inhomogeneity on a triangular lattice: the magnetic-exchange versus the elastic energy and the role of disorder. Scientific Reports, 2015, 5, 9272.	3.3	18
42	Optical anisotropy and orientational dynamics of polycarbonate dilute solutions. Macromolecules, 1990, 23, 1747-1753.	4.8	14
43	Magnetic ordering in the charge-orderedNb12O29. Physical Review B, 2002, 65, .	3.2	14
44	Structural distortions in the spin-gap regime of the quantum antiferromagnet SrCu2(BO3)2. Journal of Solid State Chemistry, 2009, 182, 3275-3281.	2.9	14
45	Nanocomposite Pattern-Mediated Magnetic Interactions for Localized Deposition of Nanomaterials. ACS Applied Materials & Interfaces, 2013, 5, 7253-7257.	8.0	14
46	Vacancy-Driven Noncubic Local Structure and Magnetic Anisotropy Tailoring in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Fe</mml:mi></mml:mrow><mml:mrow><mml:mi mathvariant="normal">O</mml:mi><mml:mtext>â^’</mml:mtext><mml:msub><mml:mrow><mml:mi>Fe</mml:mi></mml:mrow><mml:mi mathvariant="normal">O<. Physical Review X, 2019, 9, .	8.9	13
47	Nanoscale degeneracy lifting in a geometrically frustrated antiferromagnet. Physical Review B, 2020, 101, .	3.2	13
48	Effect of vacancy doping on the Haldane spin-liquid state inPbNi2â^’xMgxV2O8. Physical Review B, 2002, 65, .	3.2	12
49	Multicore Iron Oxide Mesocrystals Stabilized by a Poly(phenylenepyridyl) Dendron and Dendrimer: Role of the Dendron/Dendrimer Self-Assembly. Langmuir, 2014, 30, 8543-8550.	3.5	12
50	Spin dynamics in CuGeO3 studied by muon spin rotation. European Physical Journal B, 1994, 96, 223-226.	1.5	11
51	Neutron diffraction study of the polymeric structure of. Journal of Physics Condensed Matter, 1999, 11, 371-381.	1.8	11
52	51 V NMR study of the doped chain compounds PbNi 2 â^’ x Mg x V 2 O 8. Europhysics Letters, 2004, 65, 109-115.	2.0	11
53	Assembly of quantum dots on peptide nanostructures and their spectroscopic properties. Applied Physics A: Materials Science and Processing, 2014, 116, 977-985.	2.3	11
54	Hydration-induced spin-glass state in a frustrated Na-Mn-O triangular lattice. Physical Review B, 2016, 93, .	3.2	11

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55	Magnetoelectric dual-particulate composites with wasp-waisted magnetic response for broadband energy harvesting. Journal of Alloys and Compounds, 2019, 783, 237-245.	5.5	11
56	Near critical behavior in the two-dimensional spin-gap systemSrCu2(BO3)2. Physical Review B, 2001, 65, .	3.2	10
57	CdSeâ€“Au nanorod networks welded by gold domains: a promising structure for nano-optoelectronic components. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	10
58	Structure and magnetism in the bond-frustrated spinelZnCr2Se4. Physical Review B, 2017, 95, .	3.2	10
59	Oxygen-Defect Geometry in Oxygen-Rich La2CoxCu1-xO4+Î´ Layered Oxides. Journal of Solid State Chemistry, 1994, 108, 59-67.	2.9	9
60	Magnetism and superconductivity in La1.875(Ba,Sr)0.125CuO4. Physica B: Condensed Matter, 1994, 194-196, 353-354.	2.7	9
61	Muon-spin-rotation and magnetization study of metal-organic magnets based on the dicyanamide anion. Journal of Physics Condensed Matter, 2001, 13, 2263-2270.	1.8	9
62	C70 fulleryl radicals. Journal of the Chemical Society Chemical Communications, 1994, , 2743.	2.0	8
63	Layered Cuprates with the T* Structure: Structural and Conducting Properties. Journal of Solid State Chemistry, 1995, 115, 332-346.	2.9	8
64	Magnetic and structural instabilities in the stripe-phase region of La1.875Ba0.125 -ySryCuO4(0 leyle0.1). Journal of Physics Condensed Matter, 2000, 12, 3401-3422.	1.8	8
65	A new series of sodium cobalt oxyhydrates. Chemical Communications, 2004, , 2440.	4.1	8
66	Incommensurate atomic and magnetic modulations in the spin-frustrated <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mrow><mml:mi>Î²</mml:mi><mml:mtext>â^'</mml:mtext><mathvariant="normal">O</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> triangular lattice. Physical Review Materials, 2018, 2, .	2.4	8
67	Magnetism and superconductivity in La1.875Ba0.125-ySryCuO4+delta and La1.6-yNd0.4SryCuO4. , 1997, 105, 101-106.		7
68	Antiferromagnetic ordering in the expanded (NH3)Rb3C60 fulleride. Physica B: Condensed Matter, 2003, 326, 572-576.	2.7	7
69	Strontium barium copper oxide carbonate (Sr2-xBaxCuO2(CO3)): a series of antiferromagnetic layered oxide carbonates. Inorganic Chemistry, 1993, 32, 383-385.	4.0	6
70	ESR study of doping effects on the spin-Peierls transition in CuGeO3. Solid State Communications, 1995, 94, 593-596.	1.9	6
71	Spin Glass Magnetism in the Oxygen-Rich La2CoxCu1â^'xO4+Î´ Layered Oxides: Magnetic Susceptibility and Muon-Spin-Relaxation Studies. Journal of Solid State Chemistry, 1999, 145, 587-603.	2.9	6
72	Topotactic Intercalation of a Metallic Dense Host Matrix Chalcogenide with Large Electronâ^'Phonon Coupling:Â Crystal Structures and Electronic Properties of LixMo2SbS2(0 â‰¤x< 0.7). Chemistry of Materials, 2007, 19, 69-78.	6.7	6

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73	Electric and Magnetic Properties of Sputter Deposited BiFeO₃Films. Advances in Materials Science and Engineering, 2013, 2013, 1-6.	1.8	6
74	Thin film growth of delafossite-related derivative Î²-ÎaFeO2 on a ZnO layer by pulsed laser deposition. Thin Solid Films, 2018, 645, 424-430.	1.8	6
75	Correlated disorder-to-order crossover in the local structure of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="normal">K</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:msub><mml:mi>Fe</mml:mi><mml:mrow><mml:mn>2</mml:mn> mathvariant="normal">S</mml:mi><mml:mi>z</mml:mi></mm. Physical Review B, 2019, 100, .	3.2	6
76	Heat-Up Colloidal Synthesis of Shape-Controlled Cu-Se-S Nanostructuresâ€”Role of Precursor and Surfactant Reactivity and Performance in N2 Electroreduction. Nanomaterials, 2021, 11, 3369.	4.1	6
77	Antiferromagnetic ordering in (Sr, Ba)2 CuO2(CO3). Physica B: Condensed Matter, 1992, 180-181, 411-413.	2.7	5
78	Magnetic ordering in the T* phase La1.2Tb0.8CuO4. Hyperfine Interactions, 1994, 86, 555-560.	0.5	5
79	Spin-freezing in the two-dimensional spin-gap systems SrCu2â^'xMgx(BO3)2 (x=0,0.04,0.12). Physica B: Condensed Matter, 2003, 326, 431-435.	2.7	5
80	Relations of crystal structure to magnetic properties in the quasi-one-dimensional compound PbNi1.88Mg0.12V2O8. Journal of Solid State Chemistry, 2004, 177, 2404-2414.	2.9	5
81	Porosity-moderated ultrafast electron transport in Au nanowire networks. Applied Physics A: Materials Science and Processing, 2013, 111, 711-717.	2.3	5
82	Magnetic structure of La1.2Tb0.8CuO4. Journal of the Chemical Society, Faraday Transactions, 1996, 92, 2151.	1.7	4
83	Structural Transition in the La2â^'xNdxCuO4System. Journal of Solid State Chemistry, 1998, 140, 345-349.	2.9	4
84	Spin-gap and antiferromagnetic correlations in low-dimensional PbNi 2-x A x V 2 O 8 compounds (A=Mg, Co). Applied Physics A: Materials Science and Processing, 2002, 74, s640-s642.	2.3	4
85	Î¼SR studies of superconducting MgB1.96C0.04. Physica B: Condensed Matter, 2003, 326, 346-349.	2.7	4
86	Magnetic anisotropy of the SrCu2(BO3)2 system as revealed by X-band ESR. Applied Magnetic Resonance, 2004, 27, 267-278.	1.2	4
87	Magnetic versus non-magnetic doping effectsin the Haldane chain compound PbNi2V2O8. New Journal of Physics, 2006, 8, 60-60.	2.9	4
88	Magnetic interaction between impurity and impurity-liberated spins in the doped Haldane chain compoundsPbNi2â^'xAxV2O8(A=Mg,Co). Physical Review B, 2006, 73, .	3.2	4
89	Tailoring defects and nanocrystal transformation for optimal heating power in bimagnetic CoyFe1-yO@CoxFe3-xO4 particles. Nanoscale, 2021, , .	5.6	4
90	Neutron scattering and +SR spectroscopy of the magnetic correlations in superconducting La1.875(Ba,Sr)0.125CuO4. Physica C: Superconductivity and Its Applications, 1994, 235-240, 1725-1726.	1.2	3

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91	Spin-freezing in the layered perovskites La2Co Cu1â^'O4 + Î´. Journal of Magnetism and Magnetic Materials, 1995, 140-144, 1291-1292.	2.3	3
92	The low temperature specific heat of a single crystal of La2CuO4+Î´ in magetic fields of 0, 2 and 4 Tesla. European Physical Journal D, 1996, 46, 1215-1216.	0.4	3
93	The use of symmetry in the search for canted ferromagnetism, its application to the molecular magnets Mn[N(CN)2]2 and Fe[N(CN)2]2. Journal of Physics and Chemistry of Solids, 2004, 65, 65-71.	4.0	3
94	On the Nanoscale Structure of KxFe2â^'yCh2 (Ch = S, Se): A Neutron Pair Distribution Function View. Condensed Matter, 2018, 3, 20.	1.8	3
95	Laser-Induced Morphological and Structural Changes of Cesium Lead Bromide Nanocrystals. Nanomaterials, 2022, 12, 703.	4.1	3
96	Magnetic properties of nickel and platinum quaternary borocarbides. , 1997, 104, 61-66.		2
97	Modified magnetic interactions in hybrid perovskite nanocomposites. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 1085-1086.	2.3	2
98	X-band ESR study of the 2D spin-gap system SrCu2(BO3)2. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E699-E701.	2.3	2
99	Iron-oxide colloidal nanoclusters: from fundamental physical properties to diagnosis and therapy. , 2014, , .		2
100	Influence of Mg doping on the ultrafast electron dynamics of VO2 films. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	2
101	In Situ Visualization of Local Distortions in the High-T_c Molecule-Intercalated Li_x(C₅H₅N)_yFe_{2â€“z}Se₂ Superconductor. Inorganic Chemistry, 2022, 61, 4350-4360.	4.8	2
102	Low symmetry structures in the. , 1999, , .		1
103	Crystal, magnetic and dielectric studies of the 2D antiferromagnet: Î²-NaMnO₂. Proceedings of SPIE, 2014, , .	0.8	1
104	Crystal structure of La2Cu0.95Co0.05O4-Î´: A powder neutron diffraction study. Physica B: Condensed Matter, 1990, 165-166, 1685-1686.	2.7	0
105	Residual polarization of negative muons implanted in C60 and K3C60. , 1997, 106, 211-216.		0
106	X-Band ESR and51V NMR study of the Haldane system PbNi2â^'xMgxV2O8. Applied Magnetic Resonance, 2004, 27, 289-295.	1.2	0
107	A New Series of Sodium Cobalt Oxyhydrates.. ChemInform, 2005, 36, no.	0.0	0
108	Detecting magnetic order in via 51V NMR. Journal of Magnetism and Magnetic Materials, 2007, 310, e378-e380.	2.3	0

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109	Magneto-optical Properties of Iron Oxide Nanoclusters. , 2010, , .		0
110	Study of Na0.44MnO2by manual diffraction tomography using beam precession TEM method. Acta Crystallographica Section A: Foundations and Advances, 2012, 68, s243-s243.	0.3	0
111	Thin film mesoscale organization of nanoparticles by using biomolecular peptide tools. , 2014, , .		0