

# Alexandros Lappas

## List of Publications by Year in descending order

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111  
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2,468  
citations

201674

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#	ARTICLE	IF	CITATIONS
1	In Situ Visualization of Local Distortions in the High- $T_c$ Molecule-Intercalated $\text{Li}(\text{C}_5\text{H}_5\text{N})\text{Fe}_2\text{Se}_2$ Superconductor. <i>Inorganic Chemistry</i> , 2022, 61, 4350-4360.		
2	Laser-Induced Morphological and Structural Changes of Cesium Lead Bromide Nanocrystals. <i>Nanomaterials</i> , 2022, 12, 703.	4.1	3
3	Influence of Mg doping on the ultrafast electron dynamics of $\text{VO}_2$ films. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	2.3	2
4	Tailoring defects and nanocrystal transformation for optimal heating power in bimagnetic $\text{CoFe}_2\text{O}_4/\text{CoFe}_3\text{O}_4$ particles. <i>Nanoscale</i> , 2021, , .	5.6	4
5	Heat-Up Colloidal Synthesis of Shape-Controlled Cu-Se-S Nanostructures: Role of Precursor and Surfactant Reactivity and Performance in $\text{N}_2$ Electroreduction. <i>Nanomaterials</i> , 2021, 11, 3369.	4.1	6
6	Nanoscale degeneracy lifting in a geometrically frustrated antiferromagnet. <i>Physical Review B</i> , 2020, 101, .	3.2	13
7	Correlated disorder-to-order crossover in the local structure of $\text{K}_x\text{Fe}_y\text{O}_z$ . <i>Physical Review B</i> , 2019, 100, .	3.2	6
8	Vacancy-Driven Noncubic Local Structure and Magnetic Anisotropy Tailoring in $\text{Fe}_x\text{O}$ . <i>Physical Review X</i> , 2019, 9, .	3.9	11
9	Magnetolectric dual-particulate composites with wasp-waisted magnetic response for broadband energy harvesting. <i>Journal of Alloys and Compounds</i> , 2019, 783, 237-245.	5.5	11
10	Thin film growth of delafossite-related derivative $\text{Fe}_2\text{O}_3$ on a ZnO layer by pulsed laser deposition. <i>Thin Solid Films</i> , 2018, 645, 424-430.	1.8	6
11	On the Nanoscale Structure of $\text{K}_x\text{Fe}_2\text{Ch}_2$ ( $\text{Ch} = \text{S}, \text{Se}$ ): A Neutron Pair Distribution Function View. <i>Condensed Matter</i> , 2018, 3, 20.	1.8	3
12	Iron Oxide Colloidal Nanoclusters as Theranostic Vehicles and Their Interactions at the Cellular Level. <i>Nanomaterials</i> , 2018, 8, 315.	4.1	20
13	Incommensurate atomic and magnetic modulations in the spin-frustrated $\text{Fe}_2\text{O}_3$ triangular lattice. <i>Physical Review Materials</i> , 2018, 2, .	2.4	8
14	Structure and magnetism in the bond-frustrated spinel $\text{ZnCr}_2\text{Se}_4$ . <i>Physical Review B</i> , 2017, 95, .	3.2	10
15	Low-temperature benchtop-synthesis of all-inorganic perovskite nanowires. <i>Nanoscale</i> , 2017, 9, 18202-18207.	5.6	65
16	Hydration-induced spin-glass state in a frustrated Na-Mn-O triangular lattice. <i>Physical Review B</i> , 2016, 93, .	3.2	11
17	Ferrimagnetic nanocrystal assemblies as versatile magnetic particle hyperthermia mediators. <i>Materials Science and Engineering C</i> , 2016, 58, 187-193.	7.3	68
18	Magnetic inhomogeneity on a triangular lattice: the magnetic-exchange versus the elastic energy and the role of disorder. <i>Scientific Reports</i> , 2015, 5, 9272.	3.3	18

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19	Colloidal magnetic nanocrystal clusters: variable length-scale interaction mechanisms, synergetic functionalities and technological advantages. <i>Nanotechnology Reviews</i> , 2015, 4, .	5.8	55
20	Thin film mesoscale organization of nanoparticles by using biomolecular peptide tools. , 2014, , .		0
21	Crystal, magnetic and dielectric studies of the 2D antiferromagnet: $\hat{1}^2\text{-NaMnO}_2$ . <i>Proceedings of SPIE</i> , 2014, , .	0.8	1
22	Iron-oxide colloidal nanoclusters: from fundamental physical properties to diagnosis and therapy. , 2014, , .		2
23	Assembly-mediated interplay of dipolar interactions and surface spin disorder in colloidal maghemite nanoclusters. <i>Nanoscale</i> , 2014, 6, 3764-3776.	5.6	79
24	Multiple Twinning As a Structure Directing Mechanism in Layered Rock-Salt-Type Oxides: $\text{NaMnO}_2$ Polymorphism, Redox Potentials, and Magnetism. <i>Chemistry of Materials</i> , 2014, 26, 3306-3315.	6.7	56
25	Magnetically Recoverable Catalysts Based on Polyphenylenepyridyl Dendrons and Dendrimers. <i>RSC Advances</i> , 2014, 4, 23271.	3.6	85
26	Frustration-induced nanometre-scale inhomogeneity in a triangular antiferromagnet. <i>Nature Communications</i> , 2014, 5, 3222.	12.8	37
27	Assembly of quantum dots on peptide nanostructures and their spectroscopic properties. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 116, 977-985.	2.3	11
28	Colloidal assemblies of oriented maghemite nanocrystals and their NMR relaxometric properties. <i>Dalton Transactions</i> , 2014, 43, 8395-8404.	3.3	35
29	Multicore Iron Oxide Mesocrystals Stabilized by a Poly(phenylenepyridyl) Dendron and Dendrimer: Role of the Dendron/Dendrimer Self-Assembly. <i>Langmuir</i> , 2014, 30, 8543-8550.	3.5	12
30	Hydrophobic Periphery Tails of Polyphenylenepyridyl Dendrons Control Nanoparticle Formation and Catalytic Properties. <i>Chemistry of Materials</i> , 2014, 26, 5654-5663.	6.7	20
31	Porosity-moderated ultrafast electron transport in Au nanowire networks. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 111, 711-717.	2.3	5
32	Nanocomposite Pattern-Mediated Magnetic Interactions for Localized Deposition of Nanomaterials. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 7253-7257.	8.0	14
33	Electric and Magnetic Properties of Sputter Deposited $\text{BiFeO}_3$ Films. <i>Advances in Materials Science and Engineering</i> , 2013, 2013, 1-6.	1.8	6
34	Study of $\text{Na}_{0.44}\text{MnO}_2$ by manual diffraction tomography using beam precession TEM method. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2012, 68, s243-s243.	0.3	0
35	$\text{CdSe@Au}$ nanorod networks welded by gold domains: a promising structure for nano-optoelectronic components. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	1.9	10
36	Colloidal Anisotropic $\text{ZnO@Fe@Fe}_3\text{O}_4$ Nanoarchitectures with Interface-Mediated Exchange-Bias and Band-Edge Ultraviolet Fluorescence. <i>Chemistry of Materials</i> , 2012, 24, 2722-2732.	6.7	27

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37	Antibacterial Surface Coatings from Zinc Oxide Nanoparticles Embedded in Poly( $N$ -isopropylacrylamide) Hydrogel Surface Layers. <i>Advanced Functional Materials</i> , 2012, 22, 2376-2386.	14.9	203
38	Substitution Effect on the Interplane Coupling in Crednerite: the $Cu_{1.04}Mn_{0.96}O_2$ Case. <i>Chemistry of Materials</i> , 2011, 23, 85-94.	6.7	21
39	Coupled Commensurate Cation and Charge Modulation in the Tunneled Structure, $Na_{0.40(2)}MnO_2$ . <i>Journal of the American Chemical Society</i> , 2011, 133, 13950-13956.	13.7	39
40	Magnetic iron oxide nanoclusters with tunable optical response. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2011, 9, 201-206.	2.0	19
41	Magneto-optical Properties of Iron Oxide Nanoclusters. , 2010, , .		0
42	Multiferroicity and hydrogen-bond ordering in $CuMnO_2$ . <i>Physical Review B</i> , 2010, 81, .	3.2	145
43	Magnetoelastic coupling in the frustrated antiferromagnetic triangular lattice $CuMnO_2$ . <i>Physical Review B</i> , 2010, 82, .	3.2	25
44	Structural, electronic, and magnetic properties of nanometer-sized iron-oxide atomic clusters: Comparison between GGA and $U$ . <i>Physical Review B</i> , 2010, 81, .	3.2	24
45	One-Dimensional Magnetic Fluctuations in the Spin-2 Triangular Lattice $NaMnO_2$ . <i>Physical Review Letters</i> , 2009, 103, 077202.	7.8	63
46	Structural distortions in the spin-gap regime of the quantum antiferromagnet $SrCu_2(BO_3)_2$ . <i>Journal of Solid State Chemistry</i> , 2009, 182, 3275-3281.	2.9	14
47	A neutron diffraction study of alkali cation migration in montmorillonites. <i>Physics and Chemistry of Minerals</i> , 2008, 35, 49-58.	0.8	79
48	Magnetic interactions in $NaMnO_2$ . <i>Physical Review B</i> , 2008, 77, .	3.2	31
49	Topotactic Intercalation of a Metallic Dense Host Matrix Chalcogenide with Large Electron-Phonon Coupling: Crystal Structures and Electronic Properties of $LixMo_2SbS_2$ ( $0 < x < 0.7$ ). <i>Chemistry of Materials</i> , 2007, 19, 69-78.	6.7	6
50	Magnetoelastic Coupling and Symmetry Breaking in the Frustrated Antiferromagnet $NaMnO_2$ . <i>Physical Review Letters</i> , 2007, 99, 247211.	7.8	75
51	Detecting magnetic order in via 51V NMR. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 310, e378-e380.	2.3	0
52	Magnetic versus non-magnetic doping effects in the Haldane chain compound $PbNi_2V_2O_8$ . <i>New Journal of Physics</i> , 2006, 8, 60-60.	2.9	4
53	Magnetic interaction between impurity and impurity-liberated spins in the doped Haldane chain compounds $PbNi_2A_xV_2O_8$ ( $A=Mg,Co$ ). <i>Physical Review B</i> , 2006, 73, .	3.2	4
54	A New Series of Sodium Cobalt Oxyhydrates.. <i>ChemInform</i> , 2005, 36, no.	0.0	0

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55	Low-Energy Magnetic Excitations and Morphology in Layered Hybrid Perovskite-Poly(dimethylsiloxane) Nanocomposites. <i>Chemistry of Materials</i> , 2005, 17, 1199-1207.	6.7	26
56	$^{51}\text{V}$ NMR study of the doped chain compounds $\text{PbNi}_{2-x}\text{Mg}_x\text{V}_2\text{O}_8$ . <i>Europhysics Letters</i> , 2004, 65, 109-115.	2.0	11
57	Magnetic anisotropy of the $\text{SrCu}_2(\text{BO}_3)_2$ system as revealed by X-band ESR. <i>Applied Magnetic Resonance</i> , 2004, 27, 267-278.	1.2	4
58	X-Band ESR and $^{51}\text{V}$ NMR study of the Haldane system $\text{PbNi}_{2-x}\text{Mg}_x\text{V}_2\text{O}_8$ . <i>Applied Magnetic Resonance</i> , 2004, 27, 289-295.	1.2	0
59	Relations of crystal structure to magnetic properties in the quasi-one-dimensional compound $\text{PbNi}_{1.88}\text{Mg}_{0.12}\text{V}_2\text{O}_8$ . <i>Journal of Solid State Chemistry</i> , 2004, 177, 2404-2414.	2.9	5
60	Modified magnetic interactions in hybrid perovskite nanocomposites. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, 1085-1086.	2.3	2
61	X-band ESR study of the 2D spin-gap system $\text{SrCu}_2(\text{BO}_3)_2$ . <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, E699-E701.	2.3	2
62	The use of symmetry in the search for canted ferromagnetism, its application to the molecular magnets $\text{Mn}[\text{N}(\text{CN})_2]_2$ and $\text{Fe}[\text{N}(\text{CN})_2]_2$ . <i>Journal of Physics and Chemistry of Solids</i> , 2004, 65, 65-71.	4.0	3
63	A new series of sodium cobalt oxyhydrates. <i>Chemical Communications</i> , 2004, , 2440.	4.1	8
64	$^{13}\text{C}$ NMR studies of superconducting $\text{MgB}_{1.96}\text{C}_{0.04}$ . <i>Physica B: Condensed Matter</i> , 2003, 326, 346-349.	2.7	4
65	Antiferromagnetic ordering in the expanded $(\text{NH}_3)\text{Rb}_3\text{C}_{60}$ fulleride. <i>Physica B: Condensed Matter</i> , 2003, 326, 572-576.	2.7	7
66	Spin-freezing in the two-dimensional spin-gap systems $\text{SrCu}_2\text{A}_x\text{Mg}_x(\text{BO}_3)_2$ ( $x=0,0.04,0.12$ ). <i>Physica B: Condensed Matter</i> , 2003, 326, 431-435.	2.7	5
67	Magnetic ordering in the rutile molecular magnets $\text{M}[\text{N}(\text{CN})_2]_2$ ( $\text{M}=\text{Ni}, \text{Co}, \text{Fe}$ ). <i>Journal of Physics: Condensed Matter</i> , 2003, 15, 3821-3828.	3.2	38
68	Effect of vacancy doping on the Haldane spin-liquid state in $\text{PbNi}_{2-x}\text{Mg}_x\text{V}_2\text{O}_8$ . <i>Physical Review B</i> , 2002, 65, .	3.2	12
69	Magnetic ordering in the charge-ordered $\text{Nb}_{12}\text{O}_{29}$ . <i>Physical Review B</i> , 2002, 65, .	3.2	14
70	Impurity-induced antiferromagnetic order in the Haldane-gap compound $\text{PbNi}_{2-x}\text{Mg}_x\text{V}_2\text{O}_8$ ( $x=0.24$ ). <i>Physical Review B</i> , 2002, 66, .	3.2	21
71	Spin-gap and antiferromagnetic correlations in low-dimensional $\text{PbNi}_{2-x}\text{A}_x\text{V}_2\text{O}_8$ compounds ( $\text{A}=\text{Mg}, \text{Co}$ ). <i>Applied Physics A: Materials Science and Processing</i> , 2002, 74, s640-s642.	2.3	4
72	Organic-inorganic perovskites for magnetic nanocomposites. <i>Physica B: Condensed Matter</i> , 2002, 318, 387-391.	2.7	19

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73	Near critical behavior in the two-dimensional spin-gap system $\text{SrCu}_2(\text{BO}_3)_2$ . <i>Physical Review B</i> , 2001, 65, .	3.2	10
74	Muon-spin-rotation and magnetization study of metal-organic magnets based on the dicyanamide anion. <i>Journal of Physics Condensed Matter</i> , 2001, 13, 2263-2270.	1.8	9
75	Magnetic and structural instabilities in the stripe-phase region of $\text{La}_{1.875}\text{Ba}_{0.125-y}\text{Sr}_y\text{CuO}_4$ (0 $\leq$ y $\leq$ 0.1). <i>Journal of Physics Condensed Matter</i> , 2000, 12, 3401-3422.	1.8	8
76	Low symmetry structures in the ., 1999, , .		1
77	Neutron diffraction study of the polymeric structure of . <i>Journal of Physics Condensed Matter</i> , 1999, 11, 371-381.	1.8	11
78	Magnetic behavior of a two-leg organic spin-ladder compound. <i>Physical Review B</i> , 1999, 60, 4191-4194.	3.2	44
79	Superconductivity in $\text{Li}_x\text{CsC}_{60}$ fullerides. <i>Physical Review B</i> , 1999, 59, R6628-R6630.	3.2	50
80	Pressure and Temperature Evolution of the Structure of the Superconducting $\text{Na}_2\text{CsC}_{60}$ Fulleride. <i>Journal of Solid State Chemistry</i> , 1999, 145, 471-478.	2.9	23
81	Spin Glass Magnetism in the Oxygen-Rich $\text{La}_{2-x}\text{Cu}_{1-x}\text{O}_{4+\delta}$ Layered Oxides: Magnetic Susceptibility and Muon-Spin-Relaxation Studies. <i>Journal of Solid State Chemistry</i> , 1999, 145, 587-603.	2.9	6
82	Magnetic Ordering in the Ammoniated Fulleride $(\text{ND}_3)_3\text{K}_3\text{C}_{60}$ . <i>Journal of the American Chemical Society</i> , 1999, 121, 11227-11228.	13.7	53
83	Structural Transition in the $\text{La}_{2-x}\text{Nd}_x\text{CuO}_4$ System. <i>Journal of Solid State Chemistry</i> , 1998, 140, 345-349.	2.9	4
84	Crystal Structure of the Higher Fullerene $\text{C}_{84}$ . <i>Chemistry of Materials</i> , 1998, 10, 1742-1744.	6.7	31
85	Residual polarization of negative muons implanted in $\text{C}_{60}$ and $\text{K}_3\text{C}_{60}$ . , 1997, 106, 211-216.		0
86	Magnetism and superconductivity in $\text{La}_{1.875}\text{Ba}_{0.125-y}\text{Sr}_y\text{CuO}_4$ and $\text{La}_{1.6-y}\text{Nd}_{0.4}\text{Sr}_y\text{CuO}_4$ . , 1997, 105, 101-106.		7
87	Magnetic properties of nickel and platinum quaternary borocarbides. , 1997, 104, 61-66.		2
88	Nanoscale Encapsulation of Molybdenum Carbide in Carbon Clusters. <i>Chemistry of Materials</i> , 1996, 8, 6-8.	6.7	45
89	Isolation, Structure, and Electronic Calculations of the Heterofullerene Salt $\text{K}_6\text{C}_{59}\text{N}$ . <i>Science</i> , 1996, 271, 1833-1835.	12.6	75
90	Magnetic structure of $\text{La}_{1.2}\text{Tb}_{0.8}\text{CuO}_4$ . <i>Journal of the Chemical Society, Faraday Transactions</i> , 1996, 92, 2151.	1.7	4

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91	The low temperature specific heat of a single crystal of $\text{La}_2\text{CuO}_4$ in magnetic fields of 0, 2 and 4 Tesla. European Physical Journal D, 1996, 46, 1215-1216.	0.4	3
92	Layered Cuprates with the $T^*$ Structure: Structural and Conducting Properties. Journal of Solid State Chemistry, 1995, 115, 332-346.	2.9	8
93	ESR study of doping effects on the spin-Peierls transition in $\text{CuGeO}_3$ . Solid State Communications, 1995, 94, 593-596.	1.9	6
94	Spin-freezing in the layered perovskites $\text{La}_2\text{Co}_{1-x}\text{Cu}_x\text{O}_4$ . Journal of Magnetism and Magnetic Materials, 1995, 140-144, 1291-1292.	2.3	3
95	Conducting phase of rapidly cooled $\text{AC}_60$ (A=Cs and Rb). Physical Review B, 1995, 51, 12018-12021.	3.2	68
96	Magnetic Ordering in $\text{SmNi}_2\text{B}_2\text{C}$ . Europhysics Letters, 1995, 29, 641-646.	2.0	22
97	$\mu\text{SR}$ study of zero-field magnetic ordering in $\text{CsC}_60$ . Journal of Physics Condensed Matter, 1995, 7, L567-L573.	1.8	25
98	An Orientationally-Ordered Primitive-Cubic Form of the Fulleride $\text{CsC}_60$ . Journal of the American Chemical Society, 1995, 117, 7560-7561.	13.7	35
99	Spontaneous Magnetic Ordering in the Fullerene Charge-Transfer Salt (TDAE) $\text{C}_60$ . Science, 1995, 267, 1799-1802.	12.6	113
100	Oxygen-Defect Geometry in Oxygen-Rich $\text{La}_2\text{Co}_{1-x}\text{Cu}_x\text{O}_4$ Layered Oxides. Journal of Solid State Chemistry, 1994, 108, 59-67.	2.9	9
101	Magnetism and superconductivity in $\text{La}_{1.875}(\text{Ba},\text{Sr})_{0.125}\text{CuO}_4$ . Physica B: Condensed Matter, 1994, 194-196, 353-354.	2.7	9
102	Neutron scattering and $\mu\text{SR}$ spectroscopy of the magnetic correlations in superconducting $\text{La}_{1.875}(\text{Ba},\text{Sr})_{0.125}\text{CuO}_4$ . Physica C: Superconductivity and Its Applications, 1994, 235-240, 1725-1726.	1.2	3
103	Spin dynamics in $\text{CuGeO}_3$ studied by muon spin rotation. European Physical Journal B, 1994, 96, 223-226.	1.5	11
104	Magnetic Structure of the Oxygen-Deficient Perovskite $\text{YBaCuFeO}_{5+\delta}$ . Inorganic Chemistry, 1994, 33, 1255-1258.	4.0	31
105	Magnetic ordering in the $T^*$ phase $\text{La}_{1.2}\text{Tb}_{0.8}\text{CuO}_4$ . Hyperfine Interactions, 1994, 86, 555-560.	0.5	5
106	Orientational Disorder of $\text{C}_60$ in $\text{Li}_2\text{CsC}_60$ . Science, 1994, 264, 1294-1297.	12.6	40
107	$\text{C}_70$ fulleryl radicals. Journal of the Chemical Society Chemical Communications, 1994, , 2743.	2.0	8
108	Strontium barium copper oxide carbonate ( $\text{Sr}_{2-x}\text{Ba}_x\text{CuO}_2(\text{CO}_3)$ ): a series of antiferromagnetic layered oxide carbonates. Inorganic Chemistry, 1993, 32, 383-385.	4.0	6

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109	Antiferromagnetic ordering in (Sr, Ba) <sub>2</sub> CuO <sub>2</sub> (CO <sub>3</sub> ). Physica B: Condensed Matter, 1992, 180-181, 411-413.	2.7	5
110	Crystal structure of La <sub>2</sub> Cu <sub>0.95</sub> Co <sub>0.05</sub> O <sub>4-δ</sub> : A powder neutron diffraction study. Physica B: Condensed Matter, 1990, 165-166, 1685-1686.	2.7	0
111	Optical anisotropy and orientational dynamics of polycarbonate dilute solutions. Macromolecules, 1990, 23, 1747-1753.	4.8	14