

Vasileios Tzitzios

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

92 papers	2,946 citations	27 h-index	52 g-index
97 ext. papers	3,184 ext. citations	5.2 avg, IF	4.69 L-index

#	Paper	IF	Citations
92	Experimental Advances in Nanoparticle-Driven Stabilization of Liquid-Crystalline Blue Phases and Twist-Grain Boundary Phases. <i>Nanomaterials</i> , 2021 , 11,	5.4	3
91	Ultrafine Ni ₂ P Nanoparticle-Decorated r-GO: A Novel Liquid-Phase Approach and Dibenzothiophene Hydro-desulfurization. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 4300-4309	3.9	1
90	Structural and magnetic properties of iodide-mediated chemically synthesized L12 FePt ₃ nanoparticles. <i>AIP Advances</i> , 2021 , 11, 015312	1.5	
89	Crystal and electronic facet analysis of ultrafine NiP particles by solid-state NMR nanocrystallography. <i>Nature Communications</i> , 2021 , 12, 4334	17.4	3
88	Ferromagnetic L10-Structured CoPt Nanoparticles for Permanent Magnets and Low Pt-Based Catalysts. <i>ACS Applied Nano Materials</i> , 2021 , 4, 9231-9240	5.6	0
87	Blue phase stabilization by CoPt-decorated reduced-graphene oxide nanosheets dispersed in a chiral liquid crystal. <i>Journal of Applied Physics</i> , 2020 , 127, 095101	2.5	9
86	Mesoporous silica plated copper hydroxides/oxides heterostructures as superior regenerable sorbents for low temperature H ₂ S removal. <i>Chemical Engineering Journal</i> , 2020 , 398, 125585	14.7	12
85	The effect of CoPt-coated reduced-graphene oxide nanosheets upon the Smectic-A to Smectic-C* phase transition of a chiral liquid crystal. <i>Liquid Crystals</i> , 2020 , 47, 831-837	2.3	4
84	High-resolution birefringence investigation on the effect of surface-functionalized CdSe nanoparticles on the phase transitions of a smectic A liquid crystal. <i>Journal of Molecular Liquids</i> , 2020 , 298, 112029	6	1
83	Ultrasmall Metal-Doped CeO ₂ Nanoparticles for Low-Temperature CO Oxidation. <i>ACS Applied Nano Materials</i> , 2020 , 3, 10805-10813	5.6	13
82	Monitoring the multiphasic evolution of bismuth telluride nanoplatelets. <i>CrystEngComm</i> , 2020 , 22, 7918-7928	3.9	3
81	On the selective oxidation of H ₂ S by heavy loaded Nanoparticles Embedded in Mesoporous Matrix (NEMMs). <i>Applied Catalysis B: Environmental</i> , 2020 , 278, 119338	21.8	3
80	Quantum Dot-Driven Stabilization of Liquid-Crystalline Blue Phases. <i>Frontiers in Physics</i> , 2020 , 8,	3.9	4
79	Scalable High Refractive Index polystyrene-sulfur nanocomposites via in situ inverse vulcanization. <i>Scientific Reports</i> , 2020 , 10, 14924	4.9	3
78	Enhancing the Ordering and Coercivity of L10 FePt Nanostructures with Bismuth Additives for Applications Ranging from Permanent Magnets to Catalysts. <i>ACS Applied Nano Materials</i> , 2019 , 2, 3146-3153	5.6	13
77	Magnetic properties and hyperthermia behavior of iron oxide nanoparticle clusters. <i>AIP Advances</i> , 2019 , 9, 125033	1.5	8
76	Iron carbide nanoplatelets: colloidal synthesis and characterization. <i>Nanoscale Advances</i> , 2019 , 1, 4476-4480	4.8	8

75	Chemical synthesis of L10 Fe-Pt-Ni alloy nanoparticles. <i>AIP Advances</i> , 2018 , 8, 056210	1.5	5
74	Synthesis of nanoporous zeolite-Y and zeolite-Y/GO nanocomposite using polyelectrolyte functionalized graphene oxide. <i>Surface and Coatings Technology</i> , 2018 , 350, 369-375	4.4	13
73	Sulfur-oley amine platelet derivatives with liquid crystalline behavior.. <i>RSC Advances</i> , 2018 , 8, 41480-41483	4.7	3
72	Facile MoS2 Growth on Reduced Graphene-Oxide via Liquid Phase Method. <i>Frontiers in Materials</i> , 2018 , 5,	4	4
71	Hierarchical AlPO4-5 and SAPO-5 microporous molecular sieves with mesoporous connectivity for water sorption applications. <i>Surface and Coatings Technology</i> , 2018 , 353, 378-386	4.4	25
70	Solvothermal synthesis, nanostructural characterization and gas cryo-adsorption studies in a metal-organic framework (IRMOF-1) material. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 23899-23907	6.7	19
69	Uniform growth of fct FePt nanoparticles on the surface of reduced-GO via a green facile approach. Ferromagnetic r-GO nanocomposites with high coercivity and surface area. <i>Carbon</i> , 2017 , 121, 209-216	10.4	2
68	Twist-grain boundary phase induced by Au nanoparticles in a chiral liquid crystal host. <i>Liquid Crystals</i> , 2017 , 44, 1575-1581	2.3	13
67	New approach for direct chemical synthesis of hexagonal Co nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2016 , 400, 286-289	2.8	5
66	Direct liquid phase synthesis of ordered L10 FePt colloidal particles with high coercivity using an Au nanoparticle seeding approach. <i>New Journal of Chemistry</i> , 2016 , 40, 10294-10299	3.6	1
65	Electrocaloric and elastocaloric effects in soft materials. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016 , 374,	3	15
64	Low-temperature FCC to L10 phase transformation in CoPt(Bi) nanoparticles. <i>AIP Advances</i> , 2016 , 6, 056013	4.3	1
63	Unexpected orbital magnetism in Bi-rich Bi2Se3 nanoplatelets. <i>NPG Asia Materials</i> , 2016 , 8, e271-e271	10.3	6
62	Synthesis of nanoporous graphene oxide adsorbents by freeze-drying or microwave radiation: Characterization and hydrogen storage properties. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 6844-6852	6.7	27
61	Blue Phase Range Widening Induced by Laponite Nanoplatelets in the Chiral Liquid Crystal CE8. <i>Molecular Crystals and Liquid Crystals</i> , 2015 , 615, 14-18	0.5	13
60	Water Coordination, Proton Mobility, and Lewis Acidity in HY Nanozeolites: A High-Temperature 1H and 27Al NMR Study. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 3428-3438	3.8	10
59	Nanoparticle-induced twist-grain boundary phase. <i>Physical Review E</i> , 2014 , 90, 032501	2.4	21
58	The effect of graphene on liquid-crystalline blue phases. <i>Applied Physics Letters</i> , 2013 , 103, 143116	3.4	32

57	CdSe nanoparticles dispersed in ferroelectric smectic liquid crystals: effects upon the smectic order and the smectic-A to chiral smectic-C phase transition. <i>Physical Review E</i> , 2013 , 88, 032504	2.4	22
56	Core/shell structured iron/iron-oxide nanoparticles as excellent MRI contrast enhancement agents. <i>Journal of Magnetism and Magnetic Materials</i> , 2013 , 331, 17-20	2.8	29
55	Chemical synthesis and L12 ordering of CrPt3 nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2013 , 334, 107-110	2.8	3
54	Different modulated structures of topological defects stabilized by adaptive targeting nanoparticles. <i>Soft Matter</i> , 2013 , 9, 3956	3.6	49
53	Magnetic hyperthermia of laponite based ferrofluid. <i>Journal of Magnetism and Magnetic Materials</i> , 2013 , 336, 71-74	2.8	9
52	In Situ Deposition and Characterization of MoS2 Nanolayers on Carbon Nanofibers and Nanotubes. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 10135-10142	3.8	35
51	Effect of anisotropic MoS2 nanoparticles on the blue phase range of a chiral liquid crystal. <i>Applied Optics</i> , 2013 , 52, E47-52	1.7	31
50	Indirect Magnetoelectric Coupling in Mixtures of Magnetite and Ferroelectric Liquid Crystal. <i>Ferroelectrics</i> , 2013 , 448, 12-16	0.6	3
49	Impact of Surface-Functionalized CdSe Nanoparticles on Phase Transitions of 8CB And CE8 Liquid Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 2012 , 553, 161-167	0.5	6
48	Direct chemical synthesis of L10 FePt nanoparticles. <i>Journal of Applied Physics</i> , 2011 , 109, 07A718	2.5	14
47	Chemically synthesized hollow nanostructures in iron oxides. <i>Nanotechnology</i> , 2011 , 22, 265605	3.4	21
46	Synthesis of air stable FeCo nanoparticles. <i>Journal of Applied Physics</i> , 2011 , 109, 07A313	2.5	36
45	Theoretical and experimental study of the nanoparticle-driven blue phase stabilisation. <i>European Physical Journal E</i> , 2011 , 34, 17	1.5	52
44	Doxorubicin Nanocarriers Based on Magnetic Colloids with a Bio-polyelectrolyte Corona and High Non-linear Optical Response: Synthesis, Characterization, and Properties. <i>Advanced Functional Materials</i> , 2011 , 21, 1465-1475	15.6	26
43	One pot synthesis and characterization of ultra fine CeO2 and Cu/CeO2 nanoparticles. Application for low temperature CO oxidation. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 8593-8	1.3	10
42	Decoration of Carbon Nanotubes with CoO and Co Nanoparticles. <i>Journal of Nanomaterials</i> , 2011 , 2011, 1-9	3.2	8
41	Blue phase III widening in CE6-dispersed surface-functionalised CdSe nanoparticles. <i>Liquid Crystals</i> , 2010 , 37, 1419-1426	2.3	36
40	Nanoparticle-induced widening of the temperature range of liquid-crystalline blue phases. <i>Physical Review E</i> , 2010 , 81, 041703	2.4	166

39	Size and composition control of core-shell structured iron/iron-oxide nanoparticles. <i>Journal of Applied Physics</i> , 2010 , 107, 09A333	2.5	20
38	Chemical Synthesis and Self-Assembly of Hollow Ni/Ni ₂ P Hybrid Nanospheres. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 7582-7585	3.8	44
37	Immobilization of magnetic iron oxide nanoparticles on laponite discs - an easy way to biocompatible ferrofluids and ferrogels. <i>Journal of Materials Chemistry</i> , 2010 , 20, 5418-5428		46
36	Synthesis and magnetic properties of Fe ₃ O ₄ nanoparticles coated with biocompatible double hydrophilic block copolymer. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 4753-9	1.3	6
35	Synthesis of nanocrystalline gold-carbon nanotube composites and evaluation of their sorption and catalytic properties. <i>Microporous and Mesoporous Materials</i> , 2009 , 120, 122-131	5.3	12
34	Synthesis and Exchange Bias in Fe ₂ O ₃ /CoO and Reverse CoO/Fe ₂ O ₃ Binary Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 14609-14614	3.8	24
33	Synthesis and Magnetic Properties of Pure Cubic CoO Nanocrystals and Nanoaggregates. <i>Crystal Growth and Design</i> , 2009 , 9, 3353-3358	3.5	13
32	Ferrofluids from Magnetic Chitosan Hybrids. <i>Chemistry of Materials</i> , 2008 , 20, 3298-3305	9.6	55
31	Magnetically modified single and turbostratic stacked graphenes from tris(2,2'-bipyridyl) iron(II) ion-exchanged graphite oxide. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 14461-9	3.4	41
30	A general chemical route for the synthesis of capped nanocrystalline materials. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 3117-22	1.3	12
29	One-step solid state synthesis of capped Fe ₂ O ₃ nanocrystallites. <i>Nanotechnology</i> , 2008 , 19, 095602	3.4	23
28	Direct Chemical Synthesis of L10FePt Nanostructures. <i>Chemistry of Materials</i> , 2007 , 19, 1898-1900	9.6	20
27	Synthesis and self-organization of Au nanoparticles. <i>Nanotechnology</i> , 2007 , 18, 485604	3.4	29
26	Biopolymer Networks for the Solid-State Production of Porous Magnetic Beads and Wires. <i>Advanced Functional Materials</i> , 2007 , 17, 1409-1416	15.6	8
25	Synthesis, characterization and gas sorption properties of a molecularly-derived graphite oxide-like foam. <i>Carbon</i> , 2007 , 45, 852-857	10.4	57
24	Characterization, magnetic and transport properties of polyaniline synthesized through interfacial polymerization. <i>Polymer</i> , 2007 , 48, 3162-3169	3.9	82
23	Ordering kinetics of chemically synthesized FePt nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 316, e169-e172	2.8	10
22	Large-scale synthesis, size control, and anisotropic growth of gamma-Fe ₂ O ₃ nanoparticles: organosols and hydrosols. <i>Journal of Nanoscience and Nanotechnology</i> , 2007 , 7, 2753-7	1.3	10

21	Decorating carbon nanotubes with metal or semiconductor nanoparticles. <i>Journal of Materials Chemistry</i> , 2007 , 17, 2679		574
20	Magnetic iron oxide/clay composites: effect of the layer silicate support on the microstructure and phase formation of magnetic nanoparticles. <i>Nanotechnology</i> , 2007 , 18, 285602	3.4	46
19	Absorption-enhanced reforming of phenol by steam over supported Fe catalysts. <i>Journal of Catalysis</i> , 2006 , 241, 132-148	7.3	117
18	Synthesis and characterization of monodispersed rhodium nanoparticles organized in 3-D symmetrical structures soluble in organic media. <i>Journal of Nanoscience and Nanotechnology</i> , 2006 , 6, 2081-3	1.3	3
17	The effect of Mn doping in FePt nanoparticles on the magnetic properties of the L1(0) phase. <i>Nanotechnology</i> , 2006 , 17, 4270-3	3.4	17
16	Chemical synthesis and characterization of hcp Ni nanoparticles. <i>Nanotechnology</i> , 2006 , 17, 3750-3755	3.4	107
15	Functionalized carbon nanotubes: synthesis of meltable and amphiphilic derivatives. <i>Small</i> , 2006 , 2, 1188-91	8.1	67
14	Synthesis and characterization of carbon nanotube/metal nanoparticle composites well dispersed in organic media. <i>Carbon</i> , 2006 , 44, 848-853	10.4	80
13	Facile synthesis of capped γ -Fe ₂ O ₃ and Fe ₃ O ₄ nanoparticles. <i>Journal of Materials Science</i> , 2006 , 41, 5250-5256	4.3	22
12	Attachment of Magnetic Nanoparticles on Carbon Nanotubes and Their Soluble Derivatives. <i>Chemistry of Materials</i> , 2005 , 17, 1613-1617	9.6	215
11	Catalytic reduction of N ₂ O over Ag-Pd/Al ₂ O ₃ bimetallic catalysts. <i>Chemosphere</i> , 2005 , 59, 887-91	8.4	42
10	Synthesis and characterization of 3D CoPt nanostructures. <i>Journal of the American Chemical Society</i> , 2005 , 127, 13756-7	16.4	101
9	Synthesis and characterization of L10 FePt nanoparticles from Pt/Fe ₃ O ₄ core-shell nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2005 , 294, e95-e98	2.8	26
8	Synthesis and Characterization of L10 FePt Nanoparticles from Pt(Au, Ag)/Fe ₂ O ₃ Core/Shell Nanoparticles. <i>Advanced Materials</i> , 2005 , 17, 2188-2192	24	24
7	Catalytic reduction of N ₂ O with CH ₄ and C ₃ H ₆ over Ag/Pt/Al ₂ O ₃ bimetallic catalyst in the presence of oxygen. <i>Journal of Chemical Technology and Biotechnology</i> , 2005 , 80, 699-704	3.5	7
6	Optimized synthesis and annealing conditions of L10FePt nanoparticles. <i>Nanotechnology</i> , 2005 , 16, 1603-1607	3.1	23
5	Synthesis of CoPt nanoparticles by a modified polyol method: characterization and magnetic properties. <i>Nanotechnology</i> , 2005 , 16, 287-91	3.4	55
4	Promotion of the catalytic activity of a Ag/Al ₂ O ₃ catalyst for the N ₂ O + CO reaction by the addition of Rh a comparative activity tests and kinetic study. <i>Applied Catalysis B: Environmental</i> , 2003 , 41, 357-370	21.8	24

3	Promotion of the Catalytic Activity of a Ag/Al ₂ O ₃ Catalyst for N ₂ O Decomposition by the Addition of Rh. A Comparative Activity and Kinetic Study. <i>Industrial & Engineering Chemistry Research</i> , 2003 , 42, 2996-3000	3.9	12
2	A comparative kinetic study of CH ₄ oxidation by NiO/Al ₂ O ₃ , Pt/Al ₂ O ₃ and NiO-Pt/Al ₂ O ₃ catalysts. <i>Studies in Surface Science and Catalysis</i> , 1999 , 122, 341-348	1.8	1
1	Selective Rhenium Recovery from Spent Reforming Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 1999 , 38, 1830-1836	3.9	11