Vasileios Tzitzios

List of Publications by Citations

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	Decorating carbon nanotubes with metal or semiconductor nanoparticles. *Journal of Materials Chemistry*, **2007**, 17, 2679		574
91	Attachment of Magnetic Nanoparticles on Carbon Nanotubes and Their Soluble Derivatives. *Chemistry of Materials*, **2005**, 17, 1613-1617	9.6	215
90	Nanoparticle-induced widening of the temperature range of liquid-crystalline blue phases. *Physical Review E*, **2010**, 81, 041703	2.4	166
89	Absorption-enhanced reforming of phenol by steam over supported Fe catalysts. *Journal of Catalysis*, **2006**, 241, 132-148	7.3	117
88	Chemical synthesis and characterization of hcp Ni nanoparticles. *Nanotechnology*, **2006**, 17, 3750-3755	3.4	107
87	Synthesis and characterization of 3D CoPt nanostructures. *Journal of the American Chemical Society*, **2005**, 127, 13756-7	16.4	101
86	Characterization, magnetic and transport properties of polyaniline synthesized through interfacial polymerization. *Polymer*, **2007**, 48, 3162-3169	3.9	82
85	Synthesis and characterization of carbon nanotube/metal nanoparticle composites well dispersed in organic media. *Carbon*, **2006**, 44, 848-853	10.4	80
84	Functionalized carbon nanotubes: synthesis of meltable and amphiphilic derivatives. *Small*, **2006**, 2, 1188-91	11.1	67
83	Synthesis, characterization and gas sorption properties of a molecularly-derived graphite oxide-like foam. *Carbon*, **2007**, 45, 852-857	10.4	57
82	Ferrofluids from Magnetic Chitosan Hybrids. *Chemistry of Materials*, **2008**, 20, 3298-3305	9.6	55
81	Synthesis of CoPt nanoparticles by a modified polyol method: characterization and magnetic properties. *Nanotechnology*, **2005**, 16, 287-91	3.4	55
80	Theoretical and experimental study of the nanoparticle-driven blue phase stabilisation. *European Physical Journal E*, **2011**, 34, 17	1.5	52
79	Different modulated structures of topological defects stabilized by adaptive targeting nanoparticles. *Soft Matter*, **2013**, 9, 3956	3.6	49
78	Immobilization of magnetic iron oxide nanoparticles on laponite discs - an easy way to biocompatible ferrofluids and ferrogels. *Journal of Materials Chemistry*, **2010**, 20, 5418-5428		46
77	Magnetic iron oxide/clay composites: effect of the layer silicate support on the microstructure and phase formation of magnetic nanoparticles. *Nanotechnology*, **2007**, 18, 285602	3.4	46
76	Chemical Synthesis and Self-Assembly of Hollow Ni/Ni2P Hybrid Nanospheres. *Journal of Physical Chemistry C*, **2010**, 114, 7582-7585	3.8	44

75	Catalytic reduction of N2O over Ag-Pd/Al2O3 bimetallic catalysts. *Chemosphere*, **2005**, 59, 887-91	8.4	42
74	Magnetically modified single and turbostratic stacked graphenes from tris(2,2'-bipyridyl) iron(II) ion-exchanged graphite oxide. *Journal of Physical Chemistry B*, **2008**, 112, 14461-9	3.4	41
73	Synthesis of air stable FeCo nanoparticles. *Journal of Applied Physics*, **2011**, 109, 07A313	2.5	36
72	Blue phase III widening in CE6-dispersed surface-functionalised CdSe nanoparticles. *Liquid Crystals*, **2010**, 37, 1419-1426	2.3	36
71	In Situ Deposition and Characterization of MoS2 Nanolayers on Carbon Nanofibers and Nanotubes. *Journal of Physical Chemistry C*, **2013**, 117, 10135-10142	3.8	35
70	The effect of graphene on liquid-crystalline blue phases. *Applied Physics Letters*, **2013**, 103, 143116	3.4	32
69	Effect of anisotropic MoS2 nanoparticles on the blue phase range of a chiral liquid crystal. *Applied Optics*, **2013**, 52, E47-52	1.7	31
68	Core/shell structured iron/iron-oxide nanoparticles as excellent MRI contrast enhancement agents. *Journal of Magnetism and Magnetic Materials*, **2013**, 331, 17-20	2.8	29
67	Synthesis and self-organization of Au nanoparticles. *Nanotechnology*, **2007**, 18, 485604	3.4	29
66	Synthesis of nanoporous graphene oxide adsorbents by freeze-drying or microwave radiation: Characterization and hydrogen storage properties. *International Journal of Hydrogen Energy*, **2015**, 40, 6844-6852	6.7	27
65	Doxorubicin Nanocarriers Based on Magnetic Colloids with a Bio-polyelectrolyte Corona and High Non-linear Optical Response: Synthesis, Characterization, and Properties. *Advanced Functional Materials*, **2011**, 21, 1465-1475	15.6	26
64	Synthesis and characterization of L10 FePt nanoparticles from Pt□e3O4 core-shell nanoparticles. *Journal of Magnetism and Magnetic Materials*, **2005**, 294, e95-e98	2.8	26
63	Hierarchical AlPO4-5 and SAPO-5 microporous molecular sieves with mesoporous connectivity for water sorption applications. *Surface and Coatings Technology*, **2018**, 353, 378-386	4.4	25
62	Synthesis and Exchange Bias in □Fe2O3/CoO and Reverse CoO/□Fe2O3 Binary Nanoparticles. *Journal of Physical Chemistry C*, **2009**, 113, 14609-14614	3.8	24
61	Promotion of the catalytic activity of a Ag/Al2O3 catalyst for the N2O + CO reaction by the addition of Rh a comparative activity tests and kinetic study. *Applied Catalysis B: Environmental*, **2003**, 41, 357-370	21.8	24
60	Synthesis and Characterization of L10 FePt Nanoparticles from Pt(Au, Ag)/□Fe2O3 Core□Shell Nanoparticles. *Advanced Materials*, **2005**, 17, 2188-2192	24	24
59	One-step solid state synthesis of capped □Fe(2)O(3) nanocrystallites. *Nanotechnology*, **2008**, 19, 095602	3.4	23
58	Optimized synthesis and annealing conditions of L10FePt nanoparticles. *Nanotechnology*, **2005**, 16, 1603-1607	3.4	23

57	CdSe nanoparticles dispersed in ferroelectric smectic liquid crystals: effects upon the smectic order and the smectic-A to chiral smectic-C phase transition. *Physical Review E*, **2013**, 88, 032504	2.4	22
56	Facile synthesis of capped α-Fe2O3 and Fe3O4 nanoparticles. *Journal of Materials Science*, **2006**, 41, 5250-5256	4.3	22
55	Nanoparticle-induced twist-grain boundary phase. *Physical Review E*, **2014**, 90, 032501	2.4	21
54	Chemically synthesized hollow nanostructures in iron oxides. *Nanotechnology*, **2011**, 22, 265605	3.4	21
53	Size and composition control of core-shell structured iron/iron-oxide nanoparticles. *Journal of Applied Physics*, **2010**, 107, 09A333	2.5	20
52	Direct Chemical Synthesis of L10FePt Nanostructures. *Chemistry of Materials*, **2007**, 19, 1898-1900	9.6	20
51	Solvothermal synthesis, nanostructural characterization and gas cryo-adsorption studies in a metal–organic framework (IRMOF-1) material. *International Journal of Hydrogen Energy*, **2017**, 42, 23899-23907	6.7	19
50	The effect of Mn doping in FePt nanoparticles on the magnetic properties of the L1(0) phase. *Nanotechnology*, **2006**, 17, 4270-3	3.4	17
49	Electrocaloric and elastocaloric effects in soft materials. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2016**, 374,	3	15
48	Direct chemical synthesis of L10 FePt nanoparticles. *Journal of Applied Physics*, **2011**, 109, 07A718	2.5	14
47	Twist-grain boundary phase induced by Au nanoparticles in a chiral liquid crystal host. *Liquid Crystals*, **2017**, 44, 1575-1581	2.3	13
46	Enhancing the Ordering and Coercivity of L10 FePt Nanostructures with Bismuth Additives for Applications Ranging from Permanent Magnets to Catalysts. *ACS Applied Nano Materials*, **2019**, 2, 3146-3153	5.6	13
45	Blue Phase Range Widening Induced by Laponite Nanoplatelets in the Chiral Liquid Crystal CE8. *Molecular Crystals and Liquid Crystals*, **2015**, 615, 14-18	0.5	13
44	Synthesis of nanoporous zeolite-Y and zeolite-Y/GO nanocomposite using polyelectrolyte functionalized graphene oxide. *Surface and Coatings Technology*, **2018**, 350, 369-375	4.4	13
43	Synthesis and Magnetic Properties of Pure Cubic CoO Nanocrystals and Nanoaggregates. *Crystal Growth and Design*, **2009**, 9, 3353-3358	3.5	13
42	Ultrasmall Metal-Doped CeO2 Nanoparticles for Low-Temperature CO Oxidation. *ACS Applied Nano Materials*, **2020**, 3, 10805-10813	5.6	13
41	Synthesis of nanocrystalline gold–carbon nanotube composites and evaluation of their sorption and catalytic properties. *Microporous and Mesoporous Materials*, **2009**, 120, 122-131	5.3	12
40	A general chemical route for the synthesis of capped nanocrystalline materials. *Journal of Nanoscience and Nanotechnology*, **2008**, 8, 3117-22	1.3	12

39	Promotion of the Catalytic Activity of a Ag/Al2O3 Catalyst for N2O Decomposition by the Addition of Rh. A Comparative Activity and Kinetic Study. *Industrial & Engineering Chemistry Research*, **2003**, 42, 2996-3000	3.9	12
38	Mesoporous silica □lated□copper hydroxides/oxides heterostructures as superior regenerable sorbents for low temperature H2S removal. *Chemical Engineering Journal*, **2020**, 398, 125585	14.7	12
37	Selective Rhenium Recovery from Spent Reforming Catalysts. *Industrial & Engineering Chemistry Research*, **1999**, 38, 1830-1836	3.9	11
36	Water Coordination, Proton Mobility, and Lewis Acidity in HY Nanozeolites: A High-Temperature 1H and 27Al NMR Study. *Journal of Physical Chemistry C*, **2015**, 119, 3428-3438	3.8	10
35	One pot synthesis and characterization of ultra fine CeO2 and Cu/CeO2 nanoparticles. Application for low temperature CO oxidation. *Journal of Nanoscience and Nanotechnology*, **2011**, 11, 8593-8	1.3	10
34	Ordering kinetics of chemically synthesized FePt nanoparticles. *Journal of Magnetism and Magnetic Materials*, **2007**, 316, e169-e172	2.8	10
33	Large-scale synthesis, size control, and anisotropic growth of gamma-Fe2O3 nanoparticles: organosols and hydrosols. *Journal of Nanoscience and Nanotechnology*, **2007**, 7, 2753-7	1.3	10
32	Blue phase stabilization by CoPt-decorated reduced-graphene oxide nanosheets dispersed in a chiral liquid crystal. *Journal of Applied Physics*, **2020**, 127, 095101	2.5	9
31	Magnetic hyperthermia of laponite based ferrofluid. *Journal of Magnetism and Magnetic Materials*, **2013**, 336, 71-74	2.8	9
30	Decoration of Carbon Nanotubes with CoO and Co Nanoparticles. *Journal of Nanomaterials*, **2011**, 2011, 1-9	3.2	8
29	Biopolymer Networks for the Solid-State Production of Porous Magnetic Beads and Wires. *Advanced Functional Materials*, **2007**, 17, 1409-1416	15.6	8
28	Magnetic properties and hyperthermia behavior of iron oxide nanoparticle clusters. *AIP Advances*, **2019**, 9, 125033	1.5	8
27	Iron carbide nanoplatelets: colloidal synthesis and characterization. *Nanoscale Advances*, **2019**, 1, 4476-4480	5.0	8
26	Catalytic reduction of N2O with CH4 and C3H6 over Ag□Rh/Al2O3 bimetallic catalyst in the presence of oxygen. *Journal of Chemical Technology and Biotechnology*, **2005**, 80, 699-704	3.5	7
25	Synthesis and magnetic properties of Fe3O4 nanoparticles coated with biocompatible double hydrophilic block copolymer. *Journal of Nanoscience and Nanotechnology*, **2009**, 9, 4753-9	1.3	6
24	Impact of Surface-Functionalized CdSe Nanoparticles on Phase Transitions of 8CB And CE8 Liquid Crystals. *Molecular Crystals and Liquid Crystals*, **2012**, 553, 161-167	0.5	6
23	Unexpected orbital magnetism in Bi-rich Bi2Se3 nanoplatelets. *NPG Asia Materials*, **2016**, 8, e271-e271	10.3	6
22	New approach for direct chemical synthesis of hexagonal Co nanoparticles. *Journal of Magnetism and Magnetic Materials*, **2016**, 400, 286-289	2.8	5

21	Chemical synthesis of L10 Fe-Pt-Ni alloy nanoparticles. *AIP Advances*, **2018**, 8, 056210	1.5	5
20	The effect of CoPt-coated reduced-graphene oxide nanosheets upon the Smectic-A to Smectic-C* phase transition of a chiral liquid crystal. *Liquid Crystals*, **2020**, 47, 831-837	2.3	4
19	Quantum Dot-Driven Stabilization of Liquid-Crystalline Blue Phases. *Frontiers in Physics*, **2020**, 8,	3.9	4
18	Facile MoS2 Growth on Reduced Graphene-Oxide via Liquid Phase Method. *Frontiers in Materials*, **2018**, 5,	4	4
17	Chemical synthesis and L12 ordering of CrPt3 nanoparticles. *Journal of Magnetism and Magnetic Materials*, **2013**, 334, 107-110	2.8	3
16	Indirect Magnetoelectric Coupling in Mixtures of Magnetite and Ferroelectric Liquid Crystal. *Ferroelectrics*, **2013**, 448, 12-16	0.6	3
15	Synthesis and characterization of monodispersed rhodium nanoparticles organized in 3-D symmetrical structures soluble in organic media. *Journal of Nanoscience and Nanotechnology*, **2006**, 6, 2081-3	1.3	3
14	Experimental Advances in Nanoparticle-Driven Stabilization of Liquid-Crystalline Blue Phases and Twist-Grain Boundary Phases. *Nanomaterials*, **2021**, 11,	5.4	3
13	Monitoring the multiphasic evolution of bismuth telluride nanoplatelets. *CrystEngComm*, **2020**, 22, 7918-7928	3.3	3
12	On the selective oxidation of H2S by heavy loaded Nanoparticles Embedded in Mesoporous Matrix (NEMMs). *Applied Catalysis B: Environmental*, **2020**, 278, 119338	21.8	3
11	Scalable High Refractive Index polystyrene-sulfur nanocomposites via in situ inverse vulcanization. *Scientific Reports*, **2020**, 10, 14924	4.9	3
10	Sulfur-oleyl amine platelet derivatives with liquid crystalline behavior.. *RSC Advances*, **2018**, 8, 41480-41483	3.9	3
9	Crystal and electronic facet analysis of ultrafine NiP particles by solid-state NMR nanocrystallography. *Nature Communications*, **2021**, 12, 4334	17.4	3
8	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. *Carbon*, **2017**, 121, 209-216	10.4	2
7	Direct liquid phase synthesis of ordered L10 FePt colloidal particles with high coercivity using an Au nanoparticle seeding approach. *New Journal of Chemistry*, **2016**, 40, 10294-10299	3.6	1
6	A comparative kinetic study of CH4 oxidation by NiO/Al2O3, Pt/Al2O3 and NiO-Pt/Al2O3 catalysts. *Studies in Surface Science and Catalysis*, **1999**, 122, 341-348	1.8	1
5	High-resolution birefringence investigation on the effect of surface-functionalized CdSe nanoparticles on the phase transitions of a smectic A liquid crystal. *Journal of Molecular Liquids*, **2020**, 298, 112029	6	1
4	Ultrafine Ni2P Nanoparticle-Decorated r-GO: A Novel Liquid-Phase Approach and Dibenzothiophene Hydro-desulfurization. *Industrial & Engineering Chemistry Research*, **2021**, 60, 4300-4309	3.9	1

3	Low-temperature FCC to L10 phase transformation in CoPt(Bi) nanoparticles. *AIP Advances*, **2016**, 6, 056013	1.5	1
2	Ferromagnetic L10-Structured CoPt Nanoparticles for Permanent Magnets and Low Pt-Based Catalysts. *ACS Applied Nano Materials*, **2021**, 4, 9231-9240	5.6	0
1	Structural and magnetic properties of iodide-mediated chemically synthesized L12 FePt3 nanoparticles. *AIP Advances*, **2021**, 11, 015312	1.5	