Teresa Pellegrino

List of Publications by Year in Descending Order

126 papers	13,710 citations	55 h-index	117 g-index
129 ext. papers	15,020 ext. citations	10.4 avg, IF	6.18 L-index

#	Paper	IF	Citations
126	Co-loading of doxorubicin and iron oxide nanocubes in polycaprolactone fibers for combining Magneto-Thermal and chemotherapeutic effects on cancer cells. *Journal of Colloid and Interface Science*, **2022**, 607, 34-44	9.3	3
125	Fe O @Au@Cu S Heterostructures Designed for Tri-Modal Therapy: Photo- Magnetic Hyperthermia and Cu Radio-Insertion.. *Small*, **2022**, e2200174	11	1
124	Influence of Magnetic Scaffold Loading Patterns on their Hyperthermic Potential against Bone Tumors. *IEEE Transactions on Biomedical Engineering*, **2021**, PP,	5	2
123	Elucidating the Innate Immunological Effects of Mild Magnetic Hyperthermia on U87 Human Glioblastoma Cells: An In Vitro Study. *Pharmaceutics*, **2021**, 13,	6.4	2
122	Magnetic Nanoparticle-Based Hyperthermia Mediates Drug Delivery and Impairs the Tumorigenic Capacity of Quiescent Colorectal Cancer Stem Cells. *ACS Applied Materials & Interfaces*, **2021**, 13, 15959-15972	9.5	11
121	Magnetic Nanostructures as Emerging Therapeutic Tools to Boost Anti-Tumour Immunity. *Cancers*, **2021**, 13,	6.6	7
120	Magnetic nanoparticles and clusters for magnetic hyperthermia: optimizing their heat performance and developing combinatorial therapies to tackle cancer. *Chemical Society Reviews*, **2021**, 50, 11614-11667	58.5	33
119	Switchable Anion Exchange in Polymer-Encapsulated APbX Nanocrystals Delivers Stable All-Perovskite White Emitters. *ACS Energy Letters*, **2021**, 6, 2844-2853	20.1	13
118	Di- and tri-component spinel ferrite nanocubes: synthesis and their comparative characterization for theranostic applications. *Nanoscale*, **2021**, 13, 13665-13680	7.7	4
117	Unveiling the Dynamical Assembly of Magnetic Nanocrystal Zig-Zag Chains via In Situ TEM Imaging in Liquid. *Small*, **2020**, 16, e1907419	11	2
116	Photo-induced copper mediated copolymerization of activated-ester methacrylate polymers and their use as reactive precursors to prepare multi-dentate ligands for the water transfer of inorganic nanoparticles. *Polymer Chemistry*, **2020**, 11, 2969-2985	4.9	4
115	Uncovering the Magnetic Particle Imaging and Magnetic Resonance Imaging Features of Iron Oxide Nanocube Clusters. *Nanomaterials*, **2020**, 11,	5.4	8
114	Cation Exchange Protocols to Radiolabel Aqueous Stabilized ZnS, ZnSe, and CuFeS Nanocrystals with Cu for Dual Radio- and Photo-Thermal Therapy. *Advanced Functional Materials*, **2020**, 30, 2002362	15.6	8
113	Exploiting Unique Alignment of Cobalt Ferrite Nanoparticles, Mild Hyperthermia, and Controlled Intrinsic Cobalt Toxicity for Cancer Therapy. *Advanced Materials*, **2020**, 32, e2003712	24	32
112	Confining Iron Oxide Nanocubes inside Submicrometric Cavities as a Key Strategy To Preserve Magnetic Heat Losses in an Intracellular Environment. *ACS Applied Materials & Interfaces*, **2019**, 11, 41957-41971	9.5	31
111	Esterase-Cleavable 2D Assemblies of Magnetic Iron Oxide Nanocubes: Exploiting Enzymatic Polymer Disassembling To Improve Magnetic Hyperthermia Heat Losses. *Chemistry of Materials*, **2019**, 31, 5450-5463	9.6	24
110	Novel synthesis of platinum complexes and their intracellular delivery to tumor cells by means of magnetic nanoparticles. *Nanoscale*, **2019**, 11, 23482-23497	7.7	17

109	Oil Core-PEG Shell Nanocarriers for In Vivo MRI Imaging. *Advanced Healthcare Materials*, **2019**, 8, e1801313	13.1	14
108	Thermoresponsive Iron Oxide Nanocubes for an Effective Clinical Translation of Magnetic Hyperthermia and Heat-Mediated Chemotherapy. *ACS Applied Materials & Interfaces*, **2019**, 11, 5727-5739	9.5	67
107	Crosslinked pH-responsive polymersome via Diels-Alder click chemistry: A reversible pH-dependent vesicular nanosystem. *Polymer*, **2019**, 165, 19-27	3.9	9
106	Polymer Coating and Lipid Phases Regulate Semiconductor NanorodsQnteraction with Neuronal Membranes: A Modeling Approach. *ACS Chemical Neuroscience*, **2019**, 10, 618-627	5.7	3
105	Dually responsive gold-iron oxide heterodimers: merging stimuli-responsive surface properties with intrinsic inorganic material features. *Nanoscale*, **2018**, 10, 3930-3944	7.7	17
104	Magnetic (Hyper)Thermia or Photothermia? Progressive Comparison of Iron Oxide and Gold Nanoparticles Heating in Water, in Cells, and In Vivo. *Advanced Functional Materials*, **2018**, 28, 1803660	15.6	114
103	Maghemite Nanoparticles with Enhanced Magnetic Properties: One-Pot Preparation and Ultrastable Dextran Shell. *ACS Applied Materials & Interfaces*, **2018**, 10, 20271-20280	9.5	12
102	Nanosystems Based on Magnetic Nanoparticles and Thermo- or pH-Responsive Polymers: An Update and Future Perspectives. *Accounts of Chemical Research*, **2018**, 51, 999-1013	24.3	81
101	Star poly(Ecaprolactone)-based electrospun fibers as biocompatible scaffold for doxorubicin with prolonged drug release activity. *Colloids and Surfaces B: Biointerfaces*, **2018**, 161, 488-496	6	41
100	Fe Deficiencies, FeO Subdomains, and Structural Defects Favor Magnetic Hyperthermia Performance of Iron Oxide Nanocubes into Intracellular Environment. *Nano Letters*, **2018**, 18, 6856-6866	11.5	40
99	Manipulating the morphology of the nano oxide domain in AuCu-iron oxide dumbbell-like nanocomposites as a tool to modify magnetic properties.. *RSC Advances*, **2018**, 8, 22411-22421	3.7	1
98	Plasmonic/magnetic nanocomposites: Gold nanorods-functionalized silica coated magnetic nanoparticles. *Journal of Colloid and Interface Science*, **2017**, 502, 201-209	9.3	29
97	Selective Targeting of Neurons with Inorganic Nanoparticles: Revealing the Crucial Role of Nanoparticle Surface Charge. *ACS Nano*, **2017**, 11, 6630-6640	16.7	57
96	Multifunctional Magnetic and Upconverting Nanobeads as Dual Modal Imaging Tools. *Bioconjugate Chemistry*, **2017**, 28, 2707-2714	6.3	8
95	Multilayered Magnetic Nanobeads for the Delivery of Peptides Molecules Triggered by Intracellular Proteases. *ACS Applied Materials & Interfaces*, **2017**, 9, 35095-35104	9.5	6
94	Asymmetric Assembling of Iron Oxide Nanocubes for Improving Magnetic Hyperthermia Performance. *ACS Nano*, **2017**, 11, 12121-12133	16.7	76
93	Forced- and Self-Rotation of Magnetic Nanorods Assembly at the Cell Membrane: A Biomagnetic Torsion Pendulum. *Small*, **2017**, 13, 1701274	11	9
92	Oil/water nano-emulsion loaded with cobalt ferrite oxide nanocubes for photo-acoustic and magnetic resonance dual imaging in cancer: in vitro and preclinical studies. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2017**, 13, 275-286	6	25

91	Massive Intracellular Biodegradation of Iron Oxide Nanoparticles Evidenced Magnetically at Single-Endosome and Tissue Levels. *ACS Nano*, **2016**, 10, 7627-38	16.7	134
90	Facile transformation of FeO/FeO core-shell nanocubes to FeO via magnetic stimulation. *Scientific Reports*, **2016**, 6, 33295	4.9	28
89	Colloidal CuFeS Nanocrystals: Intermediate Fe d-Band Leads to High Photothermal Conversion Efficiency. *Chemistry of Materials*, **2016**, 28, 4848-4858	9.6	93
88	Manganese doped-iron oxide nanoparticle clusters and their potential as agents for magnetic resonance imaging and hyperthermia. *Physical Chemistry Chemical Physics*, **2016**, 18, 16848-55	3.6	49
87	Biotransformations of magnetic nanoparticles in the body. *Nano Today*, **2016**, 11, 280-284	17.9	92
86	Duality of Iron Oxide Nanoparticles in Cancer Therapy: Amplification of Heating Efficiency by Magnetic Hyperthermia and Photothermal Bimodal Treatment. *ACS Nano*, **2016**, 10, 2436-46	16.7	526
85	CoxFe3⊠O4 Nanocubes for Theranostic Applications: Effect of Cobalt Content and Particle Size. *Chemistry of Materials*, **2016**, 28, 1769-1780	9.6	120
84	PEGylated gold nanorods as optical trackers for biomedical applications: an in vivo and in vitro comparative study. *Nanotechnology*, **2016**, 27, 255101	3.4	26
83	Dumbbell-like AuCu@FeO Nanocrystals: Synthesis, Characterization, and Catalytic Activity in CO Oxidation. *ACS Applied Materials & Interfaces*, **2016**, 8, 28624-28632	9.5	16
82	Three-dimensional cage-like microscaffolds for cell invasion studies. *Scientific Reports*, **2015**, 5, 10531	4.9	40
81	The One Year Fate of Iron Oxide Coated Gold Nanoparticles in Mice. *ACS Nano*, **2015**, 9, 7925-39	16.7	140
80	In vivo biocompatibility of boron nitride nanotubes: effects on stem cell biology and tissue regeneration in planarians. *Nanomedicine*, **2015**, 10, 1911-22	5.6	67
79	Functionalization of strongly interacting magnetic nanocubes with (thermo)responsive coating and their application in hyperthermia and heat-triggered drug delivery. *ACS Applied Materials & Interfaces*, **2015**, 7, 10132-45	9.5	78
78	Synthesis of Highly Fluorescent Copper Clusters Using Living Polymer Chains as Combined Reducing Agents and Ligands. *ACS Nano*, **2015**, 9, 11886-97	16.7	48
77	Nanoscale Transformations in Covellite (CuS) Nanocrystals in the Presence of Divalent Metal Cations in a Mild Reducing Environment. *Chemistry of Materials*, **2015**, 27, 7531-7537	9.6	75
76	Post-Synthesis Incorporation of ⊡u in CuS Nanocrystals to Radiolabel Photothermal Probes: A Feasible Approach for Clinics. *Journal of the American Chemical Society*, **2015**, 137, 15145-51	16.4	51
75	Targeting FR-expressing cells in ovarian cancer with Fab-functionalized nanoparticles: a full study to provide the proof of principle from in vitro to in vivo. *Nanoscale*, **2015**, 7, 2336-51	7.7	25
74	Magnetically triggered release of molecular cargo from iron oxide nanoparticle loaded microcapsules. *Nanoscale*, **2015**, 7, 570-6	7.7	100

73	Non-covalent functionalization of carbon nano-onions with pyrene–BODIPY dyads for biological imaging. *RSC Advances*, **2015**, 5, 50253-50258	3.7	41
72	Alterations of left ventricular deformation and cardiac sympathetic derangement in patients with systolic heart failure: a 3D speckle tracking echocardiography and cardiac □□I-MIBG study. *European Journal of Nuclear Medicine and Molecular Imaging*, **2015**, 42, 1601-11	8.8	4
71	From Binary Cu2S to ternary Cu-In-S and quaternary Cu-In-Zn-S nanocrystals with tunable composition via partial cation exchange. *ACS Nano*, **2015**, 9, 521-31	16.7	155
70	Hollow Iron Oxide Nanoparticles in Polymer Nanobeads as MRI Contrast Agents. *Journal of Physical Chemistry C*, **2015**, 119, 6246-6253	3.8	13
69	Plasmonic copper sulfide nanocrystals exhibiting near-infrared photothermal and photodynamic therapeutic effects. *ACS Nano*, **2015**, 9, 1788-800	16.7	442
68	Mesoscale assemblies of iron oxide nanocubes as heat mediators and image contrast agents. *Langmuir*, **2015**, 31, 808-16	4	48
67	Nanoparticles for imaging, sensing, and therapeutic intervention. *ACS Nano*, **2014**, 8, 3107-22	16.7	211
66	Magnetic hyperthermia efficiency in the cellular environment for different nanoparticle designs. *Biomaterials*, **2014**, 35, 6400-11	15.6	290
65	Magnetic-Field-Induced Formation of Superparamagnetic Microwires in Suspension. *Journal of Physical Chemistry C*, **2014**, 118, 28220-28226	3.8	7
64	One pot synthesis of monodisperse water soluble iron oxide nanocrystals with high values of the specific absorption rate. *Journal of Materials Chemistry B*, **2014**, 2, 4426-4434	7.3	107
63	Magnetic Nanoparticles for Magnetic Hyperthermia and Controlled Drug Delivery **2014**, 139-172		3
62	Antibody-Functionalized Inorganic NPs: Mimicking Nature for Targeted Diagnosis and Therapy **2014** , 1-28		1
61	Heat-generating iron oxide nanocubes: subtle "destructurators" of the tumoral microenvironment. *ACS Nano*, **2014**, 8, 4268-83	16.7	166
60	Observer reproducibility of results from a low-dose 123I-metaiodobenzylguanidine cardiac imaging protocol in patients with heart failure. *European Journal of Nuclear Medicine and Molecular Imaging*, **2013**, 40, 1549-57	8.8	30
59	Cell-derived vesicles as a bioplatform for the encapsulation of theranostic nanomaterials. *Nanoscale*, **2013**, 5, 11374-84	7.7	66
58	Copper sulfide nanocrystals with tunable composition by reduction of covellite nanocrystals with Cu+ ions. *Journal of the American Chemical Society*, **2013**, 135, 17630-7	16.4	314
57	Colloidal Ordered Assemblies in a Polymer Shell□ A Novel Type of Magnetic Nanobeads for Theranostic Applications. *Chemistry of Materials*, **2013**, 25, 1055-1062	9.6	47
56	Subnanometer local temperature probing and remotely controlled drug release based on azo-functionalized iron oxide nanoparticles. *Nano Letters*, **2013**, 13, 2399-406	11.5	301

55	Biodegradation of iron oxide nanocubes: high-resolution in situ monitoring. *ACS Nano*, **2013**, 7, 3939-52	16.7	192
54	Immunocytochemistry, electron tomography, and energy dispersive X-ray spectroscopy (EDXS) on cryosections of human cancer cells doped with stimuli responsive polymeric nanogels loaded with iron oxide nanoparticles. *Methods in Molecular Biology*, **2013**, 1025, 179-98	1.4	5
53	Impact of diabetes on cardiac sympathetic innervation in patients with heart failure: a 123I meta-iodobenzylguanidine (123I MIBG) scintigraphic study. *Diabetes Care*, **2013**, 36, 2395-401	14.6	54
52	Polymer coated inorganic nanoparticles: tailoring the nanocrystal surface for designing nanoprobes with biological implications. *Nanoscale*, **2012**, 4, 3319-34	7.7	76
51	Controlled release of doxorubicin loaded within magnetic thermo-responsive nanocarriers under magnetic and thermal actuation in a microfluidic channel. *ACS Nano*, **2012**, 6, 10535-45	16.7	79
50	Magnetophoresis at the nanoscale: tracking the magnetic targeting efficiency of nanovectors. *Nanomedicine*, **2012**, 7, 1713-27	5.6	31
49	Magnetic pH-responsive nanogels as multifunctional delivery tools for small interfering RNA (siRNA) molecules and iron oxide nanoparticles (IONPs). *Chemical Communications*, **2012**, 48, 2400-2	5.8	49
48	Magnetic nanobeads decorated with silver nanoparticles as cytotoxic agents and photothermal probes. *Small*, **2012**, 8, 2731-42	11	48
47	Water-soluble iron oxide nanocubes with high values of specific absorption rate for cancer cell hyperthermia treatment. *ACS Nano*, **2012**, 6, 3080-91	16.7	545
46	Superparamagnetic cellulose fiber networks via nanocomposite functionalization. *Journal of Materials Chemistry*, **2012**, 22, 1662-1666		36
45	"Nanohybrids" based on pH-responsive hydrogels and inorganic nanoparticles for drug delivery and sensor applications. *Nano Letters*, **2011**, 11, 3136-41	11.5	92
44	Water-repellent cellulose fiber networks with multifunctional properties. *ACS Applied Materials & Interfaces*, **2011**, 3, 4024-31	9.5	95
43	Charge Transport and Electrochemical Properties of Colloidal Greigite (Fe3S4) Nanoplatelets. *Chemistry of Materials*, **2011**, 23, 3762-3768	9.6	57
42	Multifunctional nanobeads based on quantum dots and magnetic nanoparticles: synthesis and cancer cell targeting and sorting. *ACS Nano*, **2011**, 5, 1109-21	16.7	157
41	CdSe/CdS semiconductor quantum rods as robust fluorescent probes for paraffin-embedded tissue imaging. *IEEE Transactions on Nanobioscience*, **2011**, 10, 209-15	3.4	7
40	Rod-shaped nanostructures based on superparamagnetic nanocrystals as viscosity sensors in liquid. *Journal of Applied Physics*, **2011**, 110, 064907	2.5	11
39	Multiple functionalization of fluorescent nanoparticles for specific biolabeling and drug delivery of dopamine. *Nanoscale*, **2011**, 3, 5110-9	7.7	33
38	Correlating Magneto-Structural Properties to Hyperthermia Performance of Highly Monodisperse Iron Oxide Nanoparticles Prepared by a Seeded-Growth Route. *Chemistry of Materials*, **2011**, 23, 4170-4180	9.6	116

37	Magnetic/Silica Nanocomposites as Dual-Mode Contrast Agents for Combined Magnetic Resonance Imaging and Ultrasonography. *Advanced Functional Materials*, **2011**, 21, 2548-2555	15.6	70
36	Magnetic nanocarriers with tunable pH dependence for controlled loading and release of cationic and anionic payloads. *Advanced Materials*, **2011**, 23, 5645-50	24	40
35	Magnetic nanobeads decorated by thermo-responsive PNIPAM shell as medical platforms for the efficient delivery of doxorubicin to tumour cells. *Nanoscale*, **2011**, 3, 619-29	7.7	79
34	A cast-mold approach to iron oxide and Pt/iron oxide nanocontainers and nanoparticles with a reactive concave surface. *Journal of the American Chemical Society*, **2011**, 133, 2205-17	16.4	67
33	From iron oxide nanoparticles towards advanced iron-based inorganic materials designed for biomedical applications. *Pharmacological Research*, **2010**, 62, 126-43	10.2	365
32	Acidic pH-responsive nanogels as smart cargo systems for the simultaneous loading and release of short oligonucleotides and magnetic nanoparticles. *Langmuir*, **2010**, 26, 10315-24	4	49
31	Optimal enhancement configuration of silica nanoparticles for ultrasound imaging and automatic detection at conventional diagnostic frequencies. *Investigative Radiology*, **2010**, 45, 715-24	10.1	69
30	An ab initio study of the magnetic-metallic CoPt(3)-Au interfaces. *Journal of Physics Condensed Matter*, **2009**, 21, 015001	1.8	1
29	Magnetic-fluorescent colloidal nanobeads: preparation and exploitation in cell separation experiments. *Macromolecular Bioscience*, **2009**, 9, 952-8	5.5	63
28	CdSe/CdS/ZnS double shell nanorods with high photoluminescence efficiency and their exploitation as biolabeling probes. *Journal of the American Chemical Society*, **2009**, 131, 2948-58	16.4	220
27	Bioconjugation of rod-shaped fluorescent nanocrystals for efficient targeted cell labeling. *Langmuir* , **2009**, 25, 12614-22	4	36
26	A nanobiosensor to detect single hybridization events. *Analyst, The*, **2009**, 134, 2458-61	5	10
25	Copper-triggered aggregation of ubiquitin. *PLoS ONE*, **2009**, 4, e7052	3.7	37
24	Fluorescent nanocrystals reveal regulated portals of entry into and between the cells of Hydra. *PLoS ONE*, **2009**, 4, e7698	3.7	38
23	Fluorescent Nanocrystals and Proteins. *Nanostructure Science and Technology*, **2009**, 225-254	0.9	
22	Water solubilization of hydrophobic nanocrystals by means of poly(maleic anhydride-alt-1-octadecene). *Journal of Materials Chemistry*, **2008**, 18, 1991		123
21	Multifunctional nanostructures based on inorganic nanoparticles and oligothiophenes and their exploitation for cellular studies. *Journal of the American Chemical Society*, **2008**, 130, 10545-55	16.4	84
20	Rod-shaped nanocrystals elicit neuronal activity in vivo. *Small*, **2008**, 4, 1747-55	11	32

19	Magnetic properties of novel superparamagnetic MRI contrast agents based on colloidal nanocrystals. *Journal of Magnetism and Magnetic Materials*, **2008**, 320, e320-e323	2.8	42
18	One-pot synthesis and characterization of size-controlled bimagnetic FePt-iron oxide heterodimer nanocrystals. *Journal of the American Chemical Society*, **2008**, 130, 1477-87	16.4	165
17	Synthesis and biological assay of GSH functionalized fluorescent quantum dots for staining Hydra vulgaris. *Bioconjugate Chemistry*, **2007**, 18, 829-35	6.3	47
16	Fluorescent-magnetic hybrid nanostructures: preparation, properties, and applications in biology. *IEEE Transactions on Nanobioscience*, **2007**, 6, 298-308	3.4	89
15	Measuring cell motility using quantum dot probes. *Methods in Molecular Biology*, **2007**, 374, 125-31	1.4	12
14	Electrophoretic Separation of Nanoparticles with a Discrete Number of Functional Groups. *Advanced Functional Materials*, **2006**, 16, 943-948	15.6	188
13	Synthesis, properties and perspectives of hybrid nanocrystal structures. *Chemical Society Reviews*, **2006**, 35, 1195-208	58.5	796
12	Heterodimers based on CoPt3-Au nanocrystals with tunable domain size. *Journal of the American Chemical Society*, **2006**, 128, 6690-8	16.4	194
11	Fluorescence resonance energy transfer induced by conjugation of metalloproteins to nanoparticles. *Chemical Physics Letters*, **2006**, 417, 351-357	2.5	18
10	Labelling of cells with quantum dots. *Nanotechnology*, **2005**, 16, R9-R25	3.4	389
9	On the development of colloidal nanoparticles towards multifunctional structures and their possible use for biological applications. *Small*, **2005**, 1, 48-63	11	322
8	Cytotoxicity of colloidal CdSe and CdSe/ZnS nanoparticles. *Nano Letters*, **2005**, 5, 331-8	11.5	1419
7	Quantum-dot-based cell motility assay. *Science Signaling*, **2005**, 2005, pl5	8.8	6
6	Selective transition metal extraction by reverse micelles. *Annali Di Chimica*, **2004**, 94, 33-43		1
5	Hydrophobic Nanocrystals Coated with an Amphiphilic Polymer Shell:□A General Route to Water Soluble Nanocrystals. *Nano Letters*, **2004**, 4, 703-707	11.5	930
4	Quantum dot-based cell motility assay. *Differentiation*, **2003**, 71, 542-8	3.5	68
3	Biological applications of colloidal nanocrystals. *Nanotechnology*, **2003**, 14, R15-R27	3.4	626
2	Conformation of Oligonucleotides Attached to Gold Nanocrystals Probed by Gel Electrophoresis. *Nano Letters*, **2003**, 3, 33-36	11.5	292

1	Conjugation of DNA to Silanized Colloidal Semiconductor Nanocrystalline Quantum Dots. *Chemistry of Materials*, **2002**, 14, 2113-2119	9.6	274