Miriam Colombo

List of Publications by Citations

89 papers	3,375 citations	33 h-index	56 g-index
93 ext. papers	3,860 ext. citations	8.1 avg, IF	5.29 L-index

#	Paper	IF	Citations
89	Biological applications of magnetic nanoparticles. *Chemical Society Reviews*, **2012**, 41, 4306-34	58.5	939
88	Recent advances in magnetic fluid hyperthermia for cancer therapy. *Colloids and Surfaces B: Biointerfaces*, **2019**, 174, 42-55	6	152
87	Intracellular drug release from curcumin-loaded PLGA nanoparticles induces G2/M block in breast cancer cells. *Biomacromolecules*, **2013**, 14, 672-82	6.9	111
86	Biotechnological approaches toward nanoparticle biofunctionalization. *Trends in Biotechnology*, **2014**, 32, 11-20	15.1	94
85	Thirty Years of Cancer Nanomedicine: Success, Frustration, and Hope. *Cancers*, **2019**, 11,	6.6	94
84	Tumour homing and therapeutic effect of colloidal nanoparticles depend on the number of attached antibodies. *Nature Communications*, **2016**, 7, 13818	17.4	93
83	Single-domain protein A-engineered magnetic nanoparticles: toward a universal strategy to site-specific labeling of antibodies for targeted detection of tumor cells. *ACS Nano*, **2010**, 4, 5693-702	16.7	74
82	Protein nanocages for self-triggered nuclear delivery of DNA-targeted chemotherapeutics in Cancer Cells. *Journal of Controlled Release*, **2014**, 196, 184-96	11.7	73
81	Negatively charged silver nanoparticles with potent antibacterial activity and reduced toxicity for pharmaceutical preparations. *International Journal of Nanomedicine*, **2017**, 12, 2517-2530	7.3	70
80	The modality of cell-particle interactions drives the toxicity of nanosized CuO and TiO□ in human alveolar epithelial cells. *Toxicology Letters*, **2013**, 222, 102-16	4.4	69
79	Site-specific conjugation of ScFvs antibodies to nanoparticles by bioorthogonal strain-promoted alkyne-nitrone cycloaddition. *Angewandte Chemie - International Edition*, **2012**, 51, 496-9	16.4	63
78	Assessing the in vivo targeting efficiency of multifunctional nanoconstructs bearing antibody-derived ligands. *ACS Nano*, **2013**, 7, 6092-102	16.7	63
77	HER2 targeting as a two-sided strategy for breast cancer diagnosis and treatment: Outlook and recent implications in nanomedical approaches. *Pharmacological Research*, **2010**, 62, 150-65	10.2	60
76	Resolving the structure of ligands bound to the surface of superparamagnetic iron oxide nanoparticles by high-resolution magic-angle spinning NMR spectroscopy. *Journal of the American Chemical Society*, **2008**, 130, 12712-24	16.4	59
75	HER2 expression in breast cancer cells is downregulated upon active targeting by antibody-engineered multifunctional nanoparticles in mice. *ACS Nano*, **2011**, 5, 6383-93	16.7	58
74	Drug nanocarriers to treat autoimmunity and chronic inflammatory diseases. *Seminars in Immunology*, **2017**, 34, 61-67	10.7	48
73	Nanoformulation of antiretroviral drugs enhances their penetration across the blood brain barrier in mice. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2015**, 11, 1387-97	6	47

72	Protein-assisted one-pot synthesis and biofunctionalization of spherical gold nanoparticles for selective targeting of cancer cells. *Angewandte Chemie - International Edition*, **2012**, 51, 9272-5	16.4	47
71	H-Ferritin Enriches the Curcumin Uptake and Improves the Therapeutic Efficacy in Triple Negative Breast Cancer Cells. *Biomacromolecules*, **2017**, 18, 3318-3330	6.9	46
70	Protein oriented ligation on nanoparticles exploiting O6-alkylguanine-DNA transferase (SNAP) genetically encoded fusion. *Small*, **2012**, 8, 1492-7	11	46
69	Multifunctional Magnetic Gold Nanomaterials for Cancer. *Trends in Biotechnology*, **2019**, 37, 995-1010	15.1	44
68	Antibody-engineered nanoparticles selectively inhibit mesenchymal cells isolated from patients with chronic lung allograft dysfunction. *Nanomedicine*, **2015**, 10, 9-23	5.6	42
67	Multivalent exposure of trastuzumab on iron oxide nanoparticles improves antitumor potential and reduces resistance in HER2-positive breast cancer cells. *Scientific Reports*, **2018**, 8, 6563	4.9	40
66	Gold nanoparticles decorated by clustered multivalent cone-glycocalixarenes actively improve the targeting efficiency toward cancer cells. *Chemical Communications*, **2014**, 50, 11029-32	5.8	40
65	Investigation of antitumor activities of trastuzumab delivered by PLGA nanoparticles. *International Journal of Nanomedicine*, **2018**, 13, 957-973	7.3	37
64	Femtomolar detection of autoantibodies by magnetic relaxation nanosensors. *Analytical Biochemistry*, **2009**, 392, 96-102	3.1	37
63	Investigating the structural biofunctionality of antibodies conjugated to magnetic nanoparticles. *Nanoscale*, **2011**, 3, 387-90	7.7	36
62	Uniform lipopolysaccharide (LPS)-loaded magnetic nanoparticles for the investigation of LPS-TLR4 signaling. *Angewandte Chemie - International Edition*, **2011**, 50, 622-6	16.4	36
61	Towards ideal magnetofluorescent nanoparticles for bimodal detection of breast-cancer cells. *Small*, **2009**, 5, 2555-64	11	36
60	Orientation-controlled conjugation of haloalkane dehalogenase fused homing peptides to multifunctional nanoparticles for the specific recognition of cancer cells. *Angewandte Chemie - International Edition*, **2013**, 52, 3121-5	16.4	35
59	Delivering colloidal nanoparticles to mammalian cells: a nano-bio interface perspective. *Advanced Healthcare Materials*, **2014**, 3, 957-76	10.1	33
58	Structural iridescent tuned colors from self-assembled polymer opal surfaces. *ACS Applied Materials & Interfaces*, **2012**, 4, 6071-9	9.5	33
57	Evaluation of gold nanoparticles biocompatibility: a multiparametric study on cultured endothelial cells and macrophages. *Journal of Nanoparticle Research*, **2016**, 18, 1	2.3	33
56	Nanoparticle-mediated delivery of suicide genes in cancer therapy. *Pharmacological Research*, **2016**, 111, 619-641	10.2	31
55	The emerging role of nanotechnology in skincare. *Advances in Colloid and Interface Science*, **2021**, 293, 102437	14.3	29

54	Antiproliferative effect of ASC-J9 delivered by PLGA nanoparticles against estrogen-dependent breast cancer cells. *Molecular Pharmaceutics*, **2014**, 11, 2864-75	5.6	26
53	Development of Tc-radiolabeled nanosilica for targeted detection of HER2-positive breast cancer. *International Journal of Nanomedicine*, **2017**, 12, 3447-3461	7.3	25
52	Conformational properties of intrinsically disordered proteins bound to the surface of silica nanoparticles. *Biochimica Et Biophysica Acta - General Subjects*, **2018**, 1862, 1556-1564	4	24
51	Oral delivery of insulin via polyethylene imine-based nanoparticles for colonic release allows glycemic control in diabetic rats. *Pharmacological Research*, **2016**, 110, 122-130	10.2	24
50	One-step synthesis of star-like gold nanoparticles for surface enhanced Raman spectroscopy. *Materials Chemistry and Physics*, **2014**, 143, 1215-1221	4.4	21
49	Theranostic Nanocages for Imaging and Photothermal Therapy of Prostate Cancer Cells by Active Targeting of Neuropeptide-Y Receptor. *Bioconjugate Chemistry*, **2016**, 27, 2911-2922	6.3	19
48	Iron oxide nanoparticles surface coating and cell uptake affect biocompatibility and inflammatory responses of endothelial cells and macrophages. *Journal of Nanoparticle Research*, **2015**, 17, 1	2.3	18
47	Magnetic peptide nucleic acids for DNA targeting. *Chemical Communications*, **2009**, 6017-9	5.8	18
46	Impact of semi-solid formulations on skin penetration of iron oxide nanoparticles. *Journal of Nanobiotechnology*, **2017**, 15, 14	9.4	17
45	Aggregation-Induced Förster Resonance Energy Transfer in Polybenzofulvene/Dye Nanoparticles. *Journal of Physical Chemistry C*, **2015**, 119, 18986-18991	3.8	17
44	Cream formulation impact on topical administration of engineered colloidal nanoparticles. *PLoS ONE*, **2015**, 10, e0126366	3.7	17
43	Engineered Ferritin Nanoparticles for the Bioluminescence Tracking of Nanodrug Delivery in Cancer. *Small*, **2020**, 16, e2001450	11	17
42	Impact of the strategy adopted for drug loading in nonporous silica nanoparticles on the drug release and cytotoxic activity. *Journal of Colloid and Interface Science*, **2018**, 519, 18-26	9.3	16
41	Imatinib-loaded gold nanoparticles inhibit proliferation of fibroblasts and macrophages from systemic sclerosis patients and ameliorate experimental bleomycin-induced lung fibrosis. *Journal of Controlled Release*, **2019**, 310, 198-208	11.7	15
40	Dependence of nanoparticle-cell recognition efficiency on the surface orientation of scFv targeting ligands. *Biomaterials Science*, **2013**, 1, 728-735	7.4	15
39	Innovative approach to safely induce controlled lipolysis by superparamagnetic iron oxide nanoparticles-mediated hyperthermic treatment. *International Journal of Biochemistry and Cell Biology*, **2017**, 93, 62-73	5.6	13
38	Peptide-nanoparticle ligation mediated by cutinase fusion for the development of cancer cell-targeted nanoconjugates. *Bioconjugate Chemistry*, **2015**, 26, 680-9	6.3	13
37	Red and deep-red emissive polymeric nanoparticles based on polybenzofulvene and perylenediimide derivatives. *Dyes and Pigments*, **2018**, 149, 331-335	4.6	13

36	One-pot phase transfer and surface modification of CdSe-ZnS quantum dots using a synthetic functional copolymer. *Chemical Communications*, **2014**, 50, 240-2	5.8	13
35	Site-Specific Conjugation of ScFvs Antibodies to Nanoparticles by Bioorthogonal Strain-Promoted Alkyne Nitrone Cycloaddition. *Angewandte Chemie*, **2012**, 124, 511-514	3.6	13
34	MnO Nanoparticles Embedded in Functional Polymers as T1 Contrast Agents for Magnetic Resonance Imaging. *ACS Applied Nano Materials*, **2020**, 3, 3787-3797	5.6	12
33	Colloidal polymer-coated Zn-doped iron oxide nanoparticles with high relaxivity and specific absorption rate for efficient magnetic resonance imaging and magnetic hyperthermia. *Journal of Colloid and Interface Science*, **2020**, 579, 186-194	9.3	11
32	Immobilization of carboxypeptidase from Sulfolobus solfataricus on magnetic nanoparticles improves enzyme stability and functionality in organic media. *BMC Biotechnology*, **2014**, 14, 82	3.5	11
31	Multiple presentation of Scfv800E6 on silica nanospheres enhances targeting efficiency toward HER-2 receptor in breast cancer cells. *Bioconjugate Chemistry*, **2011**, 22, 2296-303	6.3	11
30	Bioengineered gold nanoparticles targeted to mesenchymal cells from patients with bronchiolitis obliterans syndrome does not rise the inflammatory response and can be safely inhaled by rodents. *Nanotoxicology*, **2017**, 11, 534-545	5.3	10
29	Half-Chain Cetuximab Nanoconjugates Allow Multitarget Therapy of Triple Negative Breast Cancer. *Bioconjugate Chemistry*, **2018**, 29, 3817-3832	6.3	9
28	Pemetrexed-loaded nanoparticles targeted to malignant pleural mesothelioma cells: an in vitro study. *International Journal of Nanomedicine*, **2019**, 14, 773-785	7.3	8
27	Nano-targeting of mucosal addressin cell adhesion molecule-1 identifies bowel inflammation foci in murine model. *Nanomedicine*, **2017**, 12, 1547-1560	5.6	7
26	Magnetofluorescent nanoparticles for bimodal detection of breast cancer cells **2010**,		7
25	Inositol 1,4,5-trisphosphate 3-kinase B promotes Ca mobilization and the inflammatory activity of dendritic cells. *Science Signaling*, **2021**, 14,	8.8	7
24	Are nanotechnological approaches the future of treating inflammatory diseases?. *Nanomedicine*, **2019**, 14, 2379-2390	5.6	6
23	Does conjugation strategy matter? Cetuximab-conjugated gold nanocages for targeting triple-negative breast cancer cells. *Nanoscale Advances*, **2019**, 1, 3626-3638	5.1	6
22	Protein-Assisted One-Pot Synthesis and Biofunctionalization of Spherical Gold Nanoparticles for Selective Targeting of Cancer Cells. *Angewandte Chemie*, **2012**, 124, 9406-9409	3.6	6
21	Towards a Universal Method for the Stable and Clean Functionalization of Inert Perfluoropolymer Nanoparticles: Exploiting Photopolymerizable Amphiphilic Diacetylenes. *Advanced Functional Materials*, **2010**, 20, 3932-3940	15.6	6
20	H-Ferritin nanoparticle-mediated delivery of antibodies across a BBB in vitro model for treatment of brain malignancies. *Biomaterials Science*, **2021**, 9, 2032-2042	7.4	6
19	Tc-Radiolabeled Silica Nanocarriers for Targeted Detection and Treatment of HER2-Positive Breast Cancer. *International Journal of Nanomedicine*, **2021**, 16, 1943-1960	7.3	5

18	Uniform Lipopolysaccharide (LPS)-Loaded Magnetic Nanoparticles for the Investigation of LPS–TLR4 Signaling. *Angewandte Chemie*, **2011**, 123, 648-652	3.6	4
17	Anti-MAdCAM-1-Conjugated Nanocarriers Delivering Quantum Dots Enable Specific Imaging of Inflammatory Bowel Disease. *International Journal of Nanomedicine*, **2020**, 15, 8537-8552	7.3	4
16	Monitoring the Fate of Orally Administered PLGA Nanoformulation for Local Delivery of Therapeutic Drugs. *Pharmaceutics*, **2019**, 11,	6.4	4
15	Bioengineered Approaches for Site Orientation of Peptide-Based Ligands of Nanomaterials **2018**, 139-169		4
14	Relaxometric Studies of Gd-Chelate Conjugated on the Surface of Differently Shaped Gold Nanoparticles. *Nanomaterials*, **2020**, 10,	5.4	3
13	Functionalization of colloidal nanoparticles with a discrete number of ligands based on a "HALO-bioclick" reaction. *Chemical Communications*, **2020**, 56, 11398-11401	5.8	3
12	The Role of Polymeric Coatings for a Safe-by-Design Development of Biomedical Gold Nanoparticles Assessed in Zebrafish Embryo. *Nanomaterials*, **2021**, 11,	5.4	3
11	Impact of Tuning the Surface Charge Distribution on Colloidal Iron Oxide Nanoparticle Toxicity Investigated in. *Nanomaterials*, **2021**, 11,	5.4	3
10	Suicide Gene Therapy: A New Frontier for Cancer Fighting. *Current Pharmaceutical Biotechnology*, **2019**, 20, 2-4	2.6	2
9	Nanoparticle-Mediated Suicide Gene Therapy for Triple Negative Breast Cancer Treatment. *Advanced Therapeutics*, **2020**, 3, 2000007	4.9	2
8	Targeted delivery of nanoparticles. *Frontiers of Nanoscience*, **2020**, 16, 253-264	0.7	2
7	Full-Length Recombinant hSP-D Binds and Inhibits SARS-CoV-2. *Biomolecules*, **2021**, 11,	5.9	2
6	Orientation-Controlled Conjugation of Haloalkane Dehalogenase Fused Homing Peptides to Multifunctional Nanoparticles for the Specific Recognition of Cancer Cells. *Angewandte Chemie*, **2013**, 125, 3203-3207	3.6	1
5	Strategies for the Characterization of the Saccharidic Moiety in Composite Nanoparticles. *ACS Symposium Series*, **2011**, 69-89	0.4	1
4	Development of an Effective Tumor-Targeted Contrast Agent for Magnetic Resonance Imaging Based on Mn/H-Ferritin Nanocomplexes. *ACS Applied Bio Materials*, **2021**, 4, 7800-7810	4.1	1
3	Modeling the interaction of amphiphilic polymer nanoparticles with biomembranes to Guide rational design of drug delivery systems. *Colloids and Surfaces B: Biointerfaces*, **2020**, 196, 111366	6	1
2	Loading Imatinib inside targeted nanoparticles to prevent Bronchiolitis Obliterans Syndrome. *Scientific Reports*, **2020**, 10, 20726	4.9	1
1	Novel biotinylated bile acid amphiphiles: micellar aggregates formation and interaction with hepatocytes. *Organic and Biomolecular Chemistry*, **2011**, 9, 2899-905	3.9	