

Giuseppe Battaglia

List of Publications by Year in descending order

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128
papers

9,976
citations

28242

55
h-index

36008

97
g-index

163
all docs

163
docs citations

163
times ranked

11869
citing authors

#	ARTICLE	IF	CITATIONS
1	Endocytosis at the nanoscale. <i>Chemical Society Reviews</i> , 2012, 41, 2718.	18.7	786
2	Mechanistic Insights for Block Copolymer Morphologies: How Do Worms Form Vesicles?. <i>Journal of the American Chemical Society</i> , 2011, 133, 16581-16587.	6.6	708
3	A ruthenium(II) polypyridyl complex for direct imaging of DNA structure in living cells. <i>Nature Chemistry</i> , 2009, 1, 662-667.	6.6	436
4	Block copolymer nanostructures. <i>Nano Today</i> , 2008, 3, 38-46.	6.2	383
5	Polymersomes: nature inspired nanometer sized compartments. <i>Journal of Materials Chemistry</i> , 2009, 19, 3576.	6.7	382
6	Bilayers and Interdigitation in Block Copolymer Vesicles. <i>Journal of the American Chemical Society</i> , 2005, 127, 8757-8764.	6.6	288
7	Synthetic Bioâ€œnanoreactor: Mechanical and Chemical Control of Polymersome Membrane Permeability. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 4448-4451.	7.2	246
8	Controlling Cellular Uptake by Surface Chemistry, Size, and Surface Topology at the Nanoscale. <i>Small</i> , 2009, 5, 2424-2432.	5.2	220
9	Chemotactic synthetic vesicles: Design and applications in blood-brain barrier crossing. <i>Science Advances</i> , 2017, 3, e1700362.	4.7	215
10	Templated formation of giant polymer vesicles with controlled size distributions. <i>Nature Materials</i> , 2009, 8, 507-511.	13.3	197
11	Facile Synthesis of Methacrylic ABC Triblock Copolymer Vesicles by RAFT Aqueous Dispersion Polymerization. <i>Macromolecules</i> , 2012, 45, 5081-5090.	2.2	181
12	Exploiting Endocytosis for Nanomedicines. <i>Cold Spring Harbor Perspectives in Biology</i> , 2013, 5, a016980-a016980.	2.3	173
13	Purification of Nanoparticles by Size and Shape. <i>Scientific Reports</i> , 2016, 6, 27494.	1.6	169
14	3D surface topology guides stem cell adhesion and differentiation. <i>Biomaterials</i> , 2015, 52, 140-147.	5.7	165
15	Non-cytotoxic polymer vesicles for rapid and efficient intracellular delivery. <i>Faraday Discussions</i> , 2008, 139, 143.	1.6	162
16	Controlling Polymersome Surface Topology at the Nanoscale by Membrane Confined Polymer/Polymer Phase Separation. <i>ACS Nano</i> , 2011, 5, 1775-1784.	7.3	154
17	The evolution of vesicles from bulk lamellar gels. <i>Nature Materials</i> , 2005, 4, 869-876.	13.3	138
18	iRGD peptide conjugation potentiates intraperitoneal tumor delivery of paclitaxel with polymersomes. <i>Biomaterials</i> , 2016, 104, 247-257.	5.7	123

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19	Polymersome-Mediated Delivery of Combination Anticancer Therapy to Head and Neck Cancer Cells: 2D and 3D <i>in Vitro</i> Evaluation. <i>Molecular Pharmaceutics</i> , 2014, 11, 1176-1188.	2.3	122
20	Targeting the endoplasmic reticulum with a membrane-interactive luminescent ruthenium(ii) polypyridyl complex. <i>Chemical Science</i> , 2013, 4, 4512.	3.7	120
21	Nile Blue-Based Nanosized pH Sensors for Simultaneous Far-Red and Near-Infrared Live Bioimaging. <i>Journal of the American Chemical Society</i> , 2013, 135, 14863-14870.	6.6	119
22	Novel aspects of encapsulation and delivery using polymersomes. <i>Current Opinion in Pharmacology</i> , 2014, 18, 104-111.	1.7	114
23	LRP-1-mediated intracellular antibody delivery to the Central Nervous System. <i>Scientific Reports</i> , 2015, 5, 11990.	1.6	113
24	Pathways of Polymeric Vesicle Formation. <i>Journal of Physical Chemistry B</i> , 2006, 110, 10272-10279.	1.2	105
25	Transdermal drug delivery: from micro to nano. <i>Nanoscale</i> , 2012, 4, 1881.	2.8	105
26	Effect of pH and Temperature on PMPC- <i>b</i> -PDPA Copolymer Self-Assembly. <i>Macromolecules</i> , 2013, 46, 1400-1407.	2.2	104
27	Polymeric Vesicle Permeability: A Facile Chemical Assay. <i>Langmuir</i> , 2006, 22, 4910-4913.	1.6	101
28	Encapsulation of Biomacromolecules within Polymersomes by Electroporation. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 11122-11125.	7.2	101
29	Modelling the Transport of Nanoparticles under Blood Flow using an Agent-based Approach. <i>Scientific Reports</i> , 2015, 5, 10649.	1.6	101
30	Efficient Encapsulation of Plasmid DNA in pH-Sensitive PMPC- <i>b</i> -PDPA Polymersomes: Study of the Effect of PDPA Block Length on Copolymer-DNA Binding Affinity. <i>Macromolecular Bioscience</i> , 2010, 10, 513-530.	2.1	99
31	How Does Cross-Linking Affect the Stability of Block Copolymer Vesicles in the Presence of Surfactant?. <i>Langmuir</i> , 2012, 28, 1196-1205.	1.6	92
32	Biomimetic Hybrid Nanocontainers with Selective Permeability. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 11106-11109.	7.2	92
33	pH-Sensitive Tubular Polymersomes: Formation and Applications in Cellular Delivery. <i>ACS Nano</i> , 2014, 8, 4650-4661.	7.3	91
34	Tailoring Macromolecular Expression at Polymersome Surfaces. <i>Advanced Functional Materials</i> , 2009, 19, 2906-2914.	7.8	88
35	Ruthenium(II) Metallointercalators: DNA Imaging and Cytotoxicity. <i>ChemBioChem</i> , 2011, 12, 877-880.	1.3	88
36	Conformation of Poly(methacrylic acid) Chains in Dilute Aqueous Solution. <i>Macromolecules</i> , 2008, 41, 2203-2211.	2.2	85

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37	Enhanced drug delivery to melanoma cells using PMPC-PDPA polymersomes. <i>Cancer Letters</i> , 2013, 334, 328-337.	3.2	81
38	Optimised and Rapid Pre-clinical Screening in the SOD1G93A Transgenic Mouse Model of Amyotrophic Lateral Sclerosis (ALS). <i>PLoS ONE</i> , 2011, 6, e23244.	1.1	80
39	Enhanced Fluorescence Imaging of Live Cells by Effective Cytosolic Delivery of Probes. <i>PLoS ONE</i> , 2010, 5, e10459.	1.1	80
40	Stimuli-responsive polymeric prodrug-based nanomedicine delivering nifuroxazide and doxorubicin against primary breast cancer and pulmonary metastasis. <i>Journal of Controlled Release</i> , 2020, 318, 124-135.	4.8	79
41	Localization matters: a nuclear targeting two-photon absorption iridium complex in photodynamic therapy. <i>Chemical Communications</i> , 2017, 53, 3303-3306.	2.2	77
42	pH controlled assembly of a polybutadiene-poly(methacrylic acid) copolymer in water: packing considerations and kinetic limitations. <i>Soft Matter</i> , 2009, 5, 1674.	1.2	72
43	The effect of interactions on the cellular uptake of nanoparticles. <i>Physical Biology</i> , 2011, 8, 046002.	0.8	70
44	Polymersome-mediated intracellular delivery of antibiotics to treat <i>Porphyromonas gingivalis</i> infected oral epithelial cells. <i>FASEB Journal</i> , 2013, 27, 4455-4465.	0.2	70
45	Paclitaxel-Loaded Polymersomes for Enhanced Intraperitoneal Chemotherapy. <i>Molecular Cancer Therapeutics</i> , 2016, 15, 670-679.	1.9	68
46	Fully synthetic polymer vesicles for intracellular delivery of antibodies in live cells. <i>FASEB Journal</i> , 2013, 27, 98-108.	0.2	67
47	3D Surface Functionalization of Emulsion-Templated Polymeric Foams. <i>Macromolecules</i> , 2014, 47, 7091-7098.	2.2	67
48	Diffusion Studies of Nanometer Polymersomes Across Tissue Engineered Human Oral Mucosa. <i>Pharmaceutical Research</i> , 2009, 26, 1718-1728.	1.7	66
49	Cell Instructive Microporous Scaffolds through Interface Engineering. <i>Journal of the American Chemical Society</i> , 2012, 134, 20103-20109.	6.6	66
50	Polymersomes and their applications in cancer delivery and therapy. <i>Nanomedicine</i> , 2015, 10, 2757-2780.	1.7	65
51	Biocompatible pH-responsive nanoparticles with a core-anchored multilayer shell of triblock copolymers for enhanced cancer therapy. <i>Journal of Materials Chemistry B</i> , 2017, 5, 4421-4425.	2.9	64
52	Polymersome production on a microfluidic platform using pH sensitive block copolymers. <i>Lab on A Chip</i> , 2010, 10, 1922.	3.1	62
53	Self-Assembly of Amphiphilic Block Copolypeptoids - Micelles, Worms and Polymersomes. <i>Scientific Reports</i> , 2016, 6, 33491.	1.6	61
54	Effect of Amphiphile Size on the Transformation from a Lyotropic Gel to a Vesicular Dispersion. <i>Macromolecules</i> , 2006, 39, 798-805.	2.2	59

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55	Polymersomes: A Synthetic Biological Approach to Encapsulation and Delivery. <i>Advances in Polymer Science</i> , 2010, , 115-154.	0.4	57
56	Molecular engineering of polymersome surface topology. <i>Science Advances</i> , 2016, 2, e1500948.	4.7	56
57	Internalization and biodistribution of polymersomes into oral squamous cell carcinoma cells <i>in vitro</i> and <i>in vivo</i> . <i>Nanomedicine</i> , 2010, 5, 1025-1036.	1.7	49
58	Thiol-Functionalized Block Copolymer Vesicles. <i>ACS Macro Letters</i> , 2012, 1, 1041-1045.	2.3	47
59	Polymersomes Eradicating Intracellular Bacteria. <i>ACS Nano</i> , 2020, 14, 8287-8298.	7.3	47
60	Neuron-Like Tubular Membranes Made of Diblock Copolymer Amphiphiles. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 2052-2056.	7.2	46
61	Controlling Surface Topology and Functionality of Electrospun Fibers on the Nanoscale using Amphiphilic Block Copolymers To Direct Mesenchymal Progenitor Cell Adhesion. <i>Biomacromolecules</i> , 2015, 16, 66-75.	2.6	46
62	A Self-Assembled Metallomacrocyclic Singlet Oxygen Sensitizer for Photodynamic Therapy. <i>Chemistry - A European Journal</i> , 2016, 22, 5996-6000.	1.7	42
63	Polymersomes hydrophilic brush scaling relations. <i>Soft Matter</i> , 2009, 5, 3607.	1.2	41
64	On the shuttling across the blood-brain barrier via tubule formation: Mechanism and cargo avidity bias. <i>Science Advances</i> , 2020, 6, .	4.7	41
65	Synthesis of well-defined glycopolymers and some studies of their aqueous solution behaviour. <i>Faraday Discussions</i> , 2008, 139, 359.	1.6	39
66	Nanosopic mechanical anisotropy in hydrogel surfaces. <i>Soft Matter</i> , 2010, 6, 4466.	1.2	39
67	Pericytes from Mesenchymal Stem Cells as a model for the blood-brain barrier. <i>Scientific Reports</i> , 2017, 7, 39676.	1.6	39
68	Live Cell Luminescence Imaging As a Function of Delivery Mechanism. <i>ChemBioChem</i> , 2011, 12, 548-551.	1.3	38
69	Facile synthesis of thiol-functionalized amphiphilic polylactide- <i>ε</i> -methacrylic diblock copolymers. <i>Polymer Chemistry</i> , 2014, 5, 1405-1417.	1.9	38
70	Live cell imaging of membrane / cytoskeleton interactions and membrane topology. <i>Scientific Reports</i> , 2014, 4, 6056.	1.6	37
71	Polypyrrole and polyaniline nanocomposites with high photothermal conversion efficiency. <i>Soft Matter</i> , 2020, 16, 4569-4573.	1.2	37
72	Controlling Fusion and Aggregation in Polymersome Dispersions. <i>Macromolecular Rapid Communications</i> , 2008, 29, 1855-1860.	2.0	36

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73	Lamellarsomes: metastable polymeric multilamellar aggregates. <i>Soft Matter</i> , 2007, 3, 470-475.	1.2	35
74	Stability of polymersomes prepared by size exclusion chromatography and extrusion. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 506, 739-746.	2.3	35
75	Thermosensitive nanocomposite gel for intra-tumoral two-photon photodynamic therapy. <i>Journal of Controlled Release</i> , 2019, 298, 99-109.	4.8	35
76	Molecular bionics “engineering biomaterials at the molecular level using biological principles. <i>Biomaterials</i> , 2019, 192, 26-50.	5.7	35
77	Cellular Interactions with Photo-Cross-Linked and pH-Sensitive Polymersomes: Biocompatibility and Uptake Studies. <i>Biomacromolecules</i> , 2012, 13, 4188-4195.	2.6	33
78	Designing peptide nanoparticles for efficient brain delivery. <i>Advanced Drug Delivery Reviews</i> , 2020, 160, 52-77.	6.6	33
79	Combinatorial entropy behaviour leads to range selective binding in ligand-receptor interactions. <i>Nature Communications</i> , 2020, 11, 4836.	5.8	33
80	The Development and Characterization of an Organotypic Tissue-Engineered Human Esophageal Mucosal Model. <i>Tissue Engineering - Part A</i> , 2010, 16, 1053-1064.	1.6	30
81	Bottom-Up Evolution of Vesicles from Disks to High-Genus Polymersomes. <i>IScience</i> , 2018, 7, 132-144.	1.9	29
82	Inherently fluorescent polyaniline nanoparticles in a dynamic landscape. <i>Reactive and Functional Polymers</i> , 2012, 72, 185-197.	2.0	28
83	Synthesis of an Amphiphilic Miktoarm Star Terpolymer for Self-Assembly into Patchy Polymersomes. <i>ACS Macro Letters</i> , 2016, 5, 351-354.	2.3	27
84	Targeting Neutrophilic Inflammation Using Polymersome-Mediated Cellular Delivery. <i>Journal of Immunology</i> , 2017, 198, 3596-3604.	0.4	27
85	Nanoscale detection of metal-labeled copolymers in patchy polymersomes. <i>Polymer Chemistry</i> , 2015, 6, 2065-2068.	1.9	26
86	Wet Nanoscale Imaging and Testing of Polymersomes. <i>Small</i> , 2011, 7, 2010-2015.	5.2	25
87	Real-time imaging of polymersome nanoparticles in zebrafish embryos engrafted with melanoma cancer cells: Localization, toxicity and treatment analysis. <i>EBioMedicine</i> , 2020, 58, 102902.	2.7	25
88	On the design of precision nanomedicines. <i>Science Advances</i> , 2020, 6, eaat0919.	4.7	24
89	Macrophage Targeting pH Responsive Polymersomes for Glucocorticoid Therapy. <i>Pharmaceutics</i> , 2019, 11, 614.	2.0	22
90	Diffusioosmotic and convective flows induced by a nonelectrolyte concentration gradient. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 25263-25271.	3.3	22

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91	Translocation of flexible polymersomes across pores at the nanoscale. <i>Biomaterials Science</i> , 2014, 2, 680-692.	2.6	20
92	Metabolically Active, Fully Hydrolysable Polymersomes. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4581-4586.	7.2	20
93	A Cyclometalated Iridium (III) Complex as a Microtubule Probe for Correlative Super-Resolution Fluorescence and Electron Microscopy. <i>Advanced Materials</i> , 2020, 32, e2003901.	11.1	20
94	Inspired by nature: fundamentals in nanotechnology design to overcome biological barriers. <i>Therapeutic Delivery</i> , 2013, 4, 27-43.	1.2	19
95	Comparison of metal free polymer-dye conjugation strategies in protic solvents. <i>Polymer Chemistry</i> , 2016, 7, 3046-3055.	1.9	19
96	Zn ^{II} Complexes for Bioimaging and Correlated Applications. <i>Chemistry - an Asian Journal</i> , 2019, 14, 509-526.	1.7	19
97	E-beam irradiation and UV photocrosslinking of microemulsion-laden poly(N-vinyl-2-pyrrolidone) hydrogels for <i>in situ</i> -encapsulation of volatile hydrophobic compounds. <i>Polymer Chemistry</i> , 2011, 2, 192-202.	1.9	18
98	In situ formation of magnetopolymersomes via electroporation for MRI. <i>Scientific Reports</i> , 2015, 5, 14311.	1.6	18
99	LRP-1 functionalized polymersomes enhance the efficacy of carnosine in experimental stroke. <i>Scientific Reports</i> , 2020, 10, 699.	1.6	18
100	NF- κ B hijacking theranostic Pt(II) complex in cancer therapy. <i>Theranostics</i> , 2019, 9, 2158-2166.	4.6	17
101	One-Pot Synthesis of Oxidation-Sensitive Supramolecular Gels and Vesicles. <i>Biomacromolecules</i> , 2021, 22, 5052-5064.	2.6	16
102	Asparaginase Encapsulation into Asymmetric Permeable Polymersomes. <i>ACS Macro Letters</i> , 2020, 9, 1471-1477.	2.3	15
103	Biomimetic Hybrid Nanocontainers with Selective Permeability. <i>Angewandte Chemie</i> , 2016, 128, 11272-11275.	1.6	14
104	Homopolymer Induced Aggregation of Poly(ethylene oxide)- <i>b</i> -poly(butylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.6	13
105	The Role of BAR Proteins and the Glycocalyx in Brain Endothelium Transcytosis. <i>Cells</i> , 2020, 9, 2685.	1.8	10
106	Helium ion microscopy based wall thickness and surface roughness analysis of polymer foams obtained from high internal phase emulsion. <i>Ultramicroscopy</i> , 2014, 139, 13-19.	0.8	9
107	Prostate cancer cell-specific BikDDA delivery by targeted polymersomes. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 3389-3401.	1.6	9
108	Polymersomes-Mediated Delivery of Fluorescent Probes for Targeted and Long-Term Imaging in Live Cell Microscopy. <i>Methods in Molecular Biology</i> , 2013, 991, 343-351.	0.4	8

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109	Combinatorial Intracellular Delivery Screening of Anticancer Drugs. <i>Molecular Pharmaceutics</i> , 2020, 17, 4709-4714.	2.3	8
110	Amphiphilic Histidine-Based Oligopeptides Exhibit pH-Reversible Fibril Formation. <i>ACS Macro Letters</i> , 2021, 10, 984-989.	2.3	8
111	A micro-incubator for cell and tissue imaging. <i>BioTechniques</i> , 2010, 48, 135-138.	0.8	7
112	Tuning cell behavior with nanoparticle shape. <i>PLoS ONE</i> , 2020, 15, e0240197.	1.1	7
113	Tracking Nanoparticles in Three-Dimensional Tissue-Engineered Models Using Confocal Laser Scanning Microscopy. <i>Methods in Molecular Biology</i> , 2011, 695, 41-51.	0.4	6
114	Cellular delivery of antibodies: effective targeted subcellular imaging and new therapeutic tool. <i>Nature Precedings</i> , 0, , .	0.1	5
115	Separating Extreme pH Gradients Using Amphiphilic Copolymer Membranes. <i>ChemPhysChem</i> , 2018, 19, 1987-1989.	1.0	4
116	Radiation synthesis of polyaspartamide functionalised hydrogels for sustained release of fragrances. <i>Colloid and Polymer Science</i> , 2005, 284, 151-159.	1.0	3
117	The Big Question. <i>World Policy Journal</i> , 2011, 28, 3-7.	0.2	3
118	Metabolically Active, Fully Hydrolysable Polymersomes. <i>Angewandte Chemie</i> , 2019, 131, 4629-4634.	1.6	3
119	ER α -independent NRF2-mediated immunoregulatory activity of tamoxifen. <i>Biomedicine and Pharmacotherapy</i> , 2021, 144, 112274.	2.5	3
120	Syndapin-2 mediated transcytosis of amyloid- β^2 across the blood-brain barrier. <i>Brain Communications</i> , 2022, 4, fcac039.	1.5	3
121	A Multiscale Study of Phosphorylcholine Driven Cellular Phenotypic Targeting. <i>ACS Central Science</i> , 2022, 8, 891-904.	5.3	3
122	The development of anisotropic behaviours of 3T3 fibroblasts on microgrooved patterns. <i>European Physical Journal E</i> , 2011, 34, 23.	0.7	1
123	Novel Class of Probes for Multimodal Microscopy of Cells. <i>Microscopy and Microanalysis</i> , 2020, 26, 1596-1597.	0.2	1
124	Surface Chemistry of Protein Adhesion Domains on Diblock Copolymer Films Characterized by Chemical Force Spectroscopy Mapping Technique. <i>Biophysical Journal</i> , 2012, 102, 178a.	0.2	0
125	Abstract 3279: Effects of the isoforms of the angiogenic growth factor VEGF on neo-vascularization and tumor response to the tyrosine kinase inhibitor cediranib. , 2011, , .		0
126	Polymersomes-mediated siRNA delivery for states of hormone excess. <i>Endocrine Abstracts</i> , 0, , 1-1.	0.0	0

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127	Directing Stem Cell Fate in 3D Through Cell Inert and Adhesive Diblock Copolymer Domains. , 2013, , .		0
128	Targeting Macrophages and Synoviocytes Intracellular Milieu to Augment Anti-inflammatory Drug Potency. Advanced Therapeutics, 2022, 5, .	1.6	0