

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
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163
all docs

163
docs citations

163
times ranked

11869
citing authors

#	ARTICLE	IF	CITATIONS
1	Targeting Macrophages and Synoviocytes Intracellular Milieu to Augment Anti-Inflammatory Drug Potency. <i>Advanced Therapeutics</i> , 2022, 5, .	1.6	0
2	Syndapin-2 mediated transcytosis of amyloid- β^2 across the blood-brain barrier. <i>Brain Communications</i> , 2022, 4, fcac039.	1.5	3
3	A Multiscale Study of Phosphorylcholine Driven Cellular Phenotypic Targeting. <i>ACS Central Science</i> , 2022, 8, 891-904.	5.3	3
4	Amphiphilic Histidine-Based Oligopeptides Exhibit pH-Reversible Fibril Formation. <i>ACS Macro Letters</i> , 2021, 10, 984-989.	2.3	8
5	ER α -independent NRF2-mediated immunoregulatory activity of tamoxifen. <i>Biomedicine and Pharmacotherapy</i> , 2021, 144, 112274.	2.5	3
6	One-Pot Synthesis of Oxidation-Sensitive Supramolecular Gels and Vesicles. <i>Biomacromolecules</i> , 2021, 22, 5052-5064.	2.6	16
7	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
8	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
9	Designing peptide nanoparticles for efficient brain delivery. <i>Advanced Drug Delivery Reviews</i> , 2020, 160, 52-77.	6.6	33
10	<scp>l</scp>-Asparaginase Encapsulation into Asymmetric Permeable Polymersomes. <i>ACS Macro Letters</i> , 2020, 9, 1471-1477.	2.3	15
11	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
12	Combinatorial Intracellular Delivery Screening of Anticancer Drugs. <i>Molecular Pharmaceutics</i> , 2020, 17, 4709-4714.	2.3	8
13	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
14	Novel Class of Probes for Multimodal Microscopy of Cells. <i>Microscopy and Microanalysis</i> , 2020, 26, 1596-1597.	0.2	1
15	Combinatorial entropy behaviour leads to range selective binding in ligand-receptor interactions. <i>Nature Communications</i> , 2020, 11, 4836.	5.8	33
16	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
17	The Role of BAR Proteins and the Glycocalyx in Brain Endothelium Transcytosis. <i>Cells</i> , 2020, 9, 2685.	1.8	10
18	Polypyrrole and polyaniline nanocomposites with high photothermal conversion efficiency. <i>Soft Matter</i> , 2020, 16, 4569-4573.	1.2	37

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19	Polymersomes Eradicating Intracellular Bacteria. ACS Nano, 2020, 14, 8287-8298.	7.3	47
20	Prostate cancer cell-specific BikDDA delivery by targeted polymersomes. Applied Nanoscience (Switzerland), 2020, 10, 3389-3401.	1.6	9
21	On the design of precision nanomedicines. Science Advances, 2020, 6, eaat0919.	4.7	24
22	LRP-1 functionalized polymersomes enhance the efficacy of carnosine in experimental stroke. Scientific Reports, 2020, 10, 699.	1.6	18
23	Tuning cell behavior with nanoparticle shape. PLoS ONE, 2020, 15, e0240197.	1.1	7
24	Thermosensitive nanocomposite gel for intra-tumoral two-photon photodynamic therapy. Journal of Controlled Release, 2019, 298, 99-109.	4.8	35
25	Metabolically Active, Fully Hydrolysable Polymersomes. Angewandte Chemie - International Edition, 2019, 58, 4581-4586.	7.2	20
26	NF- κ B hijacking theranostic Pt(II) complex in cancer therapy. Theranostics, 2019, 9, 2158-2166.	4.6	17
27	Zn ^{II} Complexes for Bioimaging and Correlated Applications. Chemistry - an Asian Journal, 2019, 14, 509-526.	1.7	19
28	Metabolically Active, Fully Hydrolysable Polymersomes. Angewandte Chemie, 2019, 131, 4629-4634.	1.6	3
29	Macrophage Targeting pH Responsive Polymersomes for Glucocorticoid Therapy. Pharmaceutics, 2019, 11, 614.	2.0	22
30	Molecular bionics " engineering biomaterials at the molecular level using biological principles. Biomaterials, 2019, 192, 26-50.	5.7	35
31	Bottom-Up Evolution of Vesicles from Disks to High-Genus Polymersomes. IScience, 2018, 7, 132-144.	1.9	29
32	Separating Extreme pH Gradients Using Amphiphilic Copolymer Membranes. ChemPhysChem, 2018, 19, 1987-1989.	1.0	4
33	Pericytes from Mesenchymal Stem Cells as a model for the blood-brain barrier. Scientific Reports, 2017, 7, 39676.	1.6	39
34	Localization matters: a nuclear targeting two-photon absorption iridium complex in photodynamic therapy. Chemical Communications, 2017, 53, 3303-3306.	2.2	77
35	Biocompatible pH-responsive nanoparticles with a core-anchored multilayer shell of triblock copolymers for enhanced cancer therapy. Journal of Materials Chemistry B, 2017, 5, 4421-4425.	2.9	64
36	Targeting Neutrophilic Inflammation Using Polymersome-Mediated Cellular Delivery. Journal of Immunology, 2017, 198, 3596-3604.	0.4	27

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37	Chemotactic synthetic vesicles: Design and applications in blood-brain barrier crossing. <i>Science Advances</i> , 2017, 3, e1700362.	4.7	215
38	A Self-Assembled Metallomacrocyclic Singlet Oxygen Sensitizer for Photodynamic Therapy. <i>Chemistry - A European Journal</i> , 2016, 22, 5996-6000.	1.7	42
39	Comparison of metal free polymer-dye conjugation strategies in protic solvents. <i>Polymer Chemistry</i> , 2016, 7, 3046-3055.	1.9	19
40	Paclitaxel-Loaded Polymersomes for Enhanced Intraperitoneal Chemotherapy. <i>Molecular Cancer Therapeutics</i> , 2016, 15, 670-679.	1.9	68
41	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
42	Biomimetic Hybrid Nanocontainers with Selective Permeability. <i>Angewandte Chemie</i> , 2016, 128, 11272-11275.	1.6	14
43	Biomimetic Hybrid Nanocontainers with Selective Permeability. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 11106-11109.	7.2	92
44	iRGD peptide conjugation potentiates intraperitoneal tumor delivery of paclitaxel with polymersomes. <i>Biomaterials</i> , 2016, 104, 247-257.	5.7	123
45	Molecular engineering of polymersome surface topology. <i>Science Advances</i> , 2016, 2, e1500948.	4.7	56
46	Purification of Nanoparticles by Size and Shape. <i>Scientific Reports</i> , 2016, 6, 27494.	1.6	169
47	Self-Assembly of Amphiphilic Block Copolypeptoids " Micelles, Worms and Polymersomes. <i>Scientific Reports</i> , 2016, 6, 33491.	1.6	61
48	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
49	LRP-1-mediated intracellular antibody delivery to the Central Nervous System. <i>Scientific Reports</i> , 2015, 5, 11990.	1.6	113
50	In situ formation of magnetopolymersomes via electroporation for MRI. <i>Scientific Reports</i> , 2015, 5, 14311.	1.6	18
51	Nanoscale detection of metal-labeled copolymers in patchy polymersomes. <i>Polymer Chemistry</i> , 2015, 6, 2065-2068.	1.9	26
52	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
53	3D surface topology guides stem cell adhesion and differentiation. <i>Biomaterials</i> , 2015, 52, 140-147.	5.7	165
54	Modelling the Transport of Nanoparticles under Blood Flow using an Agent-based Approach. <i>Scientific Reports</i> , 2015, 5, 10649.	1.6	101

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55	Polymersomes and their applications in cancer delivery and therapy. <i>Nanomedicine</i> , 2015, 10, 2757-2780.	1.7	65
56	Novel aspects of encapsulation and delivery using polymersomes. <i>Current Opinion in Pharmacology</i> , 2014, 18, 104-111.	1.7	114
57	Translocation of flexible polymersomes across pores at the nanoscale. <i>Biomaterials Science</i> , 2014, 2, 680-692.	2.6	20
58	Facile synthesis of thiol-functionalized amphiphilic polylactide- <i>methacrylic diblock copolymers</i> . <i>Polymer Chemistry</i> , 2014, 5, 1405-1417.	1.9	38
59	3D Surface Functionalization of Emulsion-Templated Polymeric Foams. <i>Macromolecules</i> , 2014, 47, 7091-7098.	2.2	67
60	pH-Sensitive Tubular Polymersomes: Formation and Applications in Cellular Delivery. <i>ACS Nano</i> , 2014, 8, 4650-4661.	7.3	91
61	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
62	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
63	Live cell imaging of membrane / cytoskeleton interactions and membrane topology. <i>Scientific Reports</i> , 2014, 4, 6056.	1.6	37
64	Exploiting Endocytosis for Nanomedicines. <i>Cold Spring Harbor Perspectives in Biology</i> , 2013, 5, a016980-a016980.	2.3	173
65	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
66	Targeting the endoplasmic reticulum with a membrane-interactive luminescent ruthenium(ii) polypyridyl complex. <i>Chemical Science</i> , 2013, 4, 4512.	3.7	120
67	Fully synthetic polymer vesicles for intracellular delivery of antibodies in live cells. <i>FASEB Journal</i> , 2013, 27, 98-108.	0.2	67
68	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
69	Enhanced drug delivery to melanoma cells using PMPC-PDPA polymersomes. <i>Cancer Letters</i> , 2013, 334, 328-337.	3.2	81
70	Inspired by nature: fundamentals in nanotechnology design to overcome biological barriers. <i>Therapeutic Delivery</i> , 2013, 4, 27-43.	1.2	19
71	Effect of pH and Temperature on PMPC- <i>PDPA Copolymer Self-Assembly</i> . <i>Macromolecules</i> , 2013, 46, 1400-1407.	2.2	104
72	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

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73	Directing Stem Cell Fate in 3D Through Cell Inert and Adhesive Diblock Copolymer Domains. , 2013, , .		0
74	Cellular Interactions with Photo-Cross-Linked and pH-Sensitive Polymersomes: Biocompatibility and Uptake Studies. Biomacromolecules, 2012, 13, 4188-4195.	2.6	33
75	Cell Instructive Microporous Scaffolds through Interface Engineering. Journal of the American Chemical Society, 2012, 134, 20103-20109.	6.6	66
76	Transdermal drug delivery: from micro to nano. Nanoscale, 2012, 4, 1881.	2.8	105
77	Encapsulation of Biomacromolecules within Polymersomes by Electroporation. Angewandte Chemie - International Edition, 2012, 51, 11122-11125.	7.2	101
78	Surface Chemistry of Protein Adhesion Domains on Diblock Copolymer Films Characterized by Chemical Force Spectroscopy Mapping Technique. Biophysical Journal, 2012, 102, 178a.	0.2	0
79	Facile Synthesis of Methacrylic ABC Triblock Copolymer Vesicles by RAFT Aqueous Dispersion Polymerization. Macromolecules, 2012, 45, 5081-5090.	2.2	181
80	Thiol-Functionalized Block Copolymer Vesicles. ACS Macro Letters, 2012, 1, 1041-1045.	2.3	47
81	How Does Cross-Linking Affect the Stability of Block Copolymer Vesicles in the Presence of Surfactant?. Langmuir, 2012, 28, 1196-1205.	1.6	92
82	Endocytosis at the nanoscale. Chemical Society Reviews, 2012, 41, 2718.	18.7	786
83	Synthetic Bioâ€œnanoreactor: Mechanical and Chemical Control of Polymersome Membrane Permeability. Angewandte Chemie - International Edition, 2012, 51, 4448-4451.	7.2	246
84	Inherently fluorescent polyaniline nanoparticles in a dynamic landscape. Reactive and Functional Polymers, 2012, 72, 185-197.	2.0	28
85	Controlling Polymersome Surface Topology at the Nanoscale by Membrane Confined Polymer/Polymer Phase Separation. ACS Nano, 2011, 5, 1775-1784.	7.3	154
86	The effect of interactions on the cellular uptake of nanoparticles. Physical Biology, 2011, 8, 046002.	0.8	70
87	Tracking Nanoparticles in Three-Dimensional Tissue-Engineered Models Using Confocal Laser Scanning Microscopy. Methods in Molecular Biology, 2011, 695, 41-51.	0.4	6
88	E-beam irradiation and UV photocrosslinking of microemulsion-laden poly(N-vinyl-2-pyrrolidone) hydrogels for â€œin situâ€œ-encapsulation of volatile hydrophobic compounds. Polymer Chemistry, 2011, 2, 192-202.	1.9	18
89	Mechanistic Insights for Block Copolymer Morphologies: How Do Worms Form Vesicles?. Journal of the American Chemical Society, 2011, 133, 16581-16587.	6.6	708
90	Optimised and Rapid Pre-clinical Screening in the SOD1G93A Transgenic Mouse Model of Amyotrophic Lateral Sclerosis (ALS). PLoS ONE, 2011, 6, e23244.	1.1	80

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91	The development of anisotropic behaviours of 3T3 fibroblasts on microgrooved patterns. European Physical Journal E, 2011, 34, 23.	0.7	1
92	Wet Nanoscale Imaging and Testing of Polymersomes. Small, 2011, 7, 2010-2015.	5.2	25
93	Live Cell Luminescence Imaging As a Function of Delivery Mechanism. ChemBioChem, 2011, 12, 548-551.	1.3	38
94	Ruthenium(II) Metallointercalators: DNA Imaging and Cytotoxicity. ChemBioChem, 2011, 12, 877-880.	1.3	88
95	The Big Question. World Policy Journal, 2011, 28, 3-7.	0.2	3
96	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
97	Efficient Encapsulation of Plasmid DNA in pH-Sensitive PMPC-PDPA Polymersomes: Study of the Effect of PDPA Block Length on Copolymer-DNA Binding Affinity. Macromolecular Bioscience, 2010, 10, 513-530.	2.1	99
98	A micro-incubator for cell and tissue imaging. BioTechniques, 2010, 48, 135-138.	0.8	7
99	Polymersome production on a microfluidic platform using pH sensitive block copolymers. Lab on A Chip, 2010, 10, 1922.	3.1	62
100	Polymersomes: A Synthetic Biological Approach to Encapsulation and Delivery. Advances in Polymer Science, 2010, , 115-154.	0.4	57
101	The Development and Characterization of an Organotypic Tissue-Engineered Human Esophageal Mucosal Model. Tissue Engineering - Part A, 2010, 16, 1053-1064.	1.6	30
102	Internalization and biodistribution of polymersomes into oral squamous cell carcinoma cells <i>in vitro</i> and <i>in vivo</i> . Nanomedicine, 2010, 5, 1025-1036.	1.7	49
103	Homopolymer Induced Aggregation of Poly(ethylene oxide)-b-poly(butylene Tj ETQq1 1 0.784314 rgBT/Overlo	1.6	13
104	Nanoscope mechanical anisotropy in hydrogel surfaces. Soft Matter, 2010, 6, 4466.	1.2	39
105	Enhanced Fluorescence Imaging of Live Cells by Effective Cytosolic Delivery of Probes. PLoS ONE, 2010, 5, e10459.	1.1	80
106	Tailoring Macromolecular Expression at Polymersome Surfaces. Advanced Functional Materials, 2009, 19, 2906-2914.	7.8	88
107	Diffusion Studies of Nanometer Polymersomes Across Tissue Engineered Human Oral Mucosa. Pharmaceutical Research, 2009, 26, 1718-1728.	1.7	66
108	Controlling Cellular Uptake by Surface Chemistry, Size, and Surface Topology at the Nanoscale. Small, 2009, 5, 2424-2432.	5.2	220

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109	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
110	Templated formation of giant polymer vesicles with controlled size distributions. <i>Nature Materials</i> , 2009, 8, 507-511.	13.3	197
111	Polymersomes: nature inspired nanometer sized compartments. <i>Journal of Materials Chemistry</i> , 2009, 19, 3576.	6.7	382
112	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
113	Polymersomes hydrophilic brush scaling relations. <i>Soft Matter</i> , 2009, 5, 3607.	1.2	41
114	Block copolymer nanostructures. <i>Nano Today</i> , 2008, 3, 38-46.	6.2	383
115	Controlling Fusion and Aggregation in Polymersome Dispersions. <i>Macromolecular Rapid Communications</i> , 2008, 29, 1855-1860.	2.0	36
116	Synthesis of well-defined glycopolymers and some studies of their aqueous solution behaviour. <i>Faraday Discussions</i> , 2008, 139, 359.	1.6	39
117	Non-cytotoxic polymer vesicles for rapid and efficient intracellular delivery. <i>Faraday Discussions</i> , 2008, 139, 143.	1.6	162
118	Conformation of Poly(methacrylic acid) Chains in Dilute Aqueous Solution. <i>Macromolecules</i> , 2008, 41, 2203-2211.	2.2	85
119	Lamellarsomes: metastable polymeric multilamellar aggregates. <i>Soft Matter</i> , 2007, 3, 470-475.	1.2	35
120	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
121	Polymeric Vesicle Permeability: A Facile Chemical Assay. <i>Langmuir</i> , 2006, 22, 4910-4913.	1.6	101
122	Pathways of Polymeric Vesicle Formation. <i>Journal of Physical Chemistry B</i> , 2006, 110, 10272-10279.	1.2	105
123	Neuron-Like Tubular Membranes Made of Diblock Copolymer Amphiphiles. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 2052-2056.	7.2	46
124	The evolution of vesicles from bulk lamellar gels. <i>Nature Materials</i> , 2005, 4, 869-876.	13.3	138
125	Radiation synthesis of polyaspartamide functionalised hydrogels for sustained release of fragrances. <i>Colloid and Polymer Science</i> , 2005, 284, 151-159.	1.0	3
126	Bilayers and Interdigitation in Block Copolymer Vesicles. <i>Journal of the American Chemical Society</i> , 2005, 127, 8757-8764.	6.6	288

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127	Cellular delivery of antibodies: effective targeted subcellular imaging and new therapeutic tool. Nature Precedings, 0, , .	0.1	5
128	Polymersomes-mediated siRNA delivery for states of hormone excess. Endocrine Abstracts, 0, , 1-1.	0.0	0