

Stefano Menegatti

List of Publications by Year in descending order

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68
papers

1,420
citations

304743

22
h-index

395702

33
g-index

74
all docs

74
docs citations

74
times ranked

1399
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance of hexamer peptide ligands for affinity purification of immunoglobulin G from commercial cell culture media. <i>Journal of Chromatography A</i> , 2011, 1218, 1691-1700.	3.7	95
2	mRNA display selection and solid-phase synthesis of Fc-binding cyclic peptide affinity ligands. <i>Biotechnology and Bioengineering</i> , 2013, 110, 857-870.	3.3	74
3	A hyaluronic acid conjugate engineered to synergistically and sequentially deliver gemcitabine and doxorubicin to treat triple negative breast cancer. <i>Journal of Controlled Release</i> , 2017, 267, 191-202.	9.9	70
4	DAFODIL: A novel liposome-encapsulated synergistic combination of doxorubicin and 5FU for low dose chemotherapy. <i>Journal of Controlled Release</i> , 2016, 229, 154-162.	9.9	52
5	Low-molecular-weight polymer-drug conjugates for synergistic anticancer activity of camptothecin and doxorubicin combinations. <i>Nanomedicine</i> , 2016, 11, 1139-1151.	3.3	46
6	De Novo Design of Skin-Penetrating Peptides for Enhanced Transdermal Delivery of Peptide Drugs. <i>Advanced Healthcare Materials</i> , 2016, 5, 602-609.	7.6	43
7	Past, Present, and Future of Affinity-based Cell Separation Technologies. <i>Acta Biomaterialia</i> , 2020, 112, 29-51.	8.3	42
8	Treating Tumors at Low Drug Doses Using an Aptamer-Peptide Synergistic Drug Conjugate. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 1437-1441.	13.8	41
9	Design of protease-resistant peptide ligands for the purification of antibodies from human plasma. <i>Journal of Chromatography A</i> , 2016, 1445, 93-104.	3.7	39
10	Quantum dot enabled lateral flow immunoassay for detection of cardiac biomarker NT-proBNP. <i>Sensing and Bio-Sensing Research</i> , 2018, 21, 46-53.	4.2	36
11	Process for purification of monoclonal antibody expressed in transgenic <i>Lemna</i> plant extract using dextran-coated charcoal and hexamer peptide affinity resin. <i>Journal of Chromatography A</i> , 2012, 1260, 61-66.	3.7	34
12	Purification of polyclonal antibodies from <i>Chlorella</i> fraction II + III, skim milk, and whey by affinity chromatography using a hexamer peptide ligand. <i>Journal of Separation Science</i> , 2012, 35, 3139-3148.	2.5	33
13	Alkaline-stable peptide ligand affinity adsorbents for the purification of biomolecules. <i>Journal of Chromatography A</i> , 2012, 1245, 55-64.	3.7	31
14	Reversible Cyclic Peptide Libraries for the Discovery of Affinity Ligands. <i>Analytical Chemistry</i> , 2013, 85, 9229-9237.	6.5	31
15	Surface-Bound Microgels for Separation, Sensing, and Biomedical Applications. <i>Advanced Functional Materials</i> , 2021, 31, 2104164.	14.9	29
16	Targeted Capture of Chinese Hamster Ovary Host Cell Proteins: Peptide Ligand Discovery. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1729.	4.1	28
17	Platelet-rich plasma lysate displays antibiofilm properties and restores antimicrobial activity against synovial fluid biofilms in vitro. <i>Journal of Orthopaedic Research</i> , 2020, 38, 1365-1374.	2.3	27
18	Ultrasound-Powered Implants: A Critical Review of Piezoelectric Material Selection and Applications. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100986.	7.6	27

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19	Highly Efficient 1-Octene Hydroformylation at Low Syngas Pressure: From Single-Droplet Screening to Continuous Flow Synthesis. <i>ACS Catalysis</i> , 2020, 10, 7535-7542.	11.2	26
20	Tailoring the Chemical Modification of Chitosan Hydrogels to Fine-Tune the Release of a Synergistic Combination of Chemotherapeutics. <i>Biomacromolecules</i> , 2019, 20, 3126-3141.	5.4	25
21	Peptide-Based Affinity Adsorbents with High Binding Capacity for the Purification of Monoclonal Antibodies. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 8800-8811.	3.7	24
22	Peptide science: A blue model for new generations of peptidomimetics. <i>Acta Biomaterialia</i> , 2020, 102, 35-74.	8.3	24
23	Affibody-Binding Ligands. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3769.	4.1	23
24	The hidden potential of small synthetic molecules and peptides as affinity ligands for bioseparations. <i>Pharmaceutical Bioprocessing</i> , 2013, 1, 467-485.	0.8	22
25	Design, selection, and development of cyclic peptide ligands for human erythropoietin. <i>Journal of Chromatography A</i> , 2017, 1500, 105-120.	3.7	22
26	Purification of human erythropoietin by affinity chromatography using cyclic peptide ligands. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2018, 1085, 1-12.	2.3	22
27	Modified graphene oxide (GO) particles in peptide hydrogels: a hybrid system enabling scheduled delivery of synergistic combinations of chemotherapeutics. <i>Journal of Materials Chemistry B</i> , 2020, 8, 3852-3868.	5.8	22
28	Synthesis, structure, and function of internally functionalized dendrimers. <i>Journal of Polymer Science</i> , 2021, 59, 10-28.	3.8	22
29	Novel peptide ligands for antibody purification provide superior clearance of host cell protein impurities. <i>Journal of Chromatography A</i> , 2020, 1625, 461237.	3.7	21
30	Screening Yeast Display Libraries against Magnetized Yeast Cell Targets Enables Efficient Isolation of Membrane Protein Binders. <i>ACS Combinatorial Science</i> , 2019, 21, 817-832.	3.8	20
31	Translating antibody-binding peptides into peptoid ligands with improved affinity and stability. <i>Journal of Chromatography A</i> , 2019, 1602, 284-299.	3.7	17
32	Optimization of Sequence, Display, and Mode of Operation of IgG-Binding Peptide Ligands to Develop Robust, High-Capacity Affinity Adsorbents That Afford High IgG Product Quality. <i>International Journal of Molecular Sciences</i> , 2019, 20, 161.	4.1	17
33	Photoinduced reconfiguration to control the protein-binding affinity of azobenzene-cyclized peptides. <i>Journal of Materials Chemistry B</i> , 2020, 8, 7413-7427.	5.8	17
34	Quantitative Yeast-Yeast Two Hybrid for the Discovery and Binding Affinity Estimation of Protein-Protein Interactions. <i>ACS Synthetic Biology</i> , 2021, 10, 505-514.	3.8	17
35	Discovery and Evaluation of Peptide Ligands for Selective Adsorption and Release of Cas9 Nuclease on Solid Substrates. <i>Bioconjugate Chemistry</i> , 2019, 30, 3057-3068.	3.6	16
36	Affordable Microfluidic Bead-Sorting Platform for Automated Selection of Porous Particles Functionalized with Bioactive Compounds. <i>Scientific Reports</i> , 2019, 9, 7210.	3.3	15

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37	Isolation of Chemically Cyclized Peptide Binders Using Yeast Surface Display. <i>ACS Combinatorial Science</i> , 2020, 22, 519-532.	3.8	15
38	Peptides and pseudopeptide ligands: a powerful toolbox for the affinity purification of current and next-generation biotherapeutics. <i>Journal of Chromatography A</i> , 2021, 1635, 461632.	3.7	15
39	Engineering Next Generation Cyclized Peptide Ligands for Light-Controlled Capture and Release of Therapeutic Proteins. <i>Advanced Functional Materials</i> , 2021, 31, 2101410.	14.9	15
40	Screening of Yeast Display Libraries of Enzymatically Treated Peptides to Discover Macrocyclic Peptide Ligands. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1634.	4.1	14
41	Self-healing and repair of fabrics: A comprehensive review of the application toolkit. <i>Materials Today</i> , 2022, 54, 90-109.	14.2	14
42	Towards continuous mAb purification: Clearance of host cell proteins from CHO cell culture harvests via flow-through affinity chromatography using peptide-based adsorbents. <i>Biotechnology and Bioengineering</i> , 2022, 119, 1873-1889.	3.3	14
43	Targeted capture of Chinese hamster ovary host cell proteins: Peptide ligand binding by proteomic analysis. <i>Biotechnology and Bioengineering</i> , 2020, 117, 438-452.	3.3	13
44	A multiscale coarse-grained model to predict the molecular architecture and drug transport properties of modified chitosan hydrogels. <i>Soft Matter</i> , 2020, 16, 10591-10610.	2.7	13
45	De novo discovery of peptide-based affinity ligands for the fab fragment of human immunoglobulin G. <i>Journal of Chromatography A</i> , 2022, 1669, 462941.	3.7	13
46	Multiplexed Competitive Screening of One-Bead-One-Component Combinatorial Libraries Using a ClonePix 2 Colony Sorter. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5119.	4.1	11
47	Nonwoven fiber mats with thermo-responsive permeability to inorganic and organic electrolytes. <i>Journal of Membrane Science</i> , 2020, 616, 118439.	8.2	11
48	Discovery of Membrane-Permeating Cyclic Peptides via mRNA Display. <i>Bioconjugate Chemistry</i> , 2020, 31, 2325-2338.	3.6	9
49	Removal of host cell proteins from cell culture fluids by weak partitioning chromatography using peptide-based adsorbents. <i>Separation and Purification Technology</i> , 2021, 257, 117890.	7.9	9
50	<i>In Silico</i> Identification and Experimental Validation of Peptide-Based Inhibitors Targeting <i>Clostridium difficile</i> Toxin A. <i>ACS Chemical Biology</i> , 2022, 17, 118-128.	3.4	9
51	Resorbable elastomers for implantable medical devices: highlights and applications. <i>Polymer International</i> , 2022, 71, 552-561.	3.1	9
52	Packing density, homogeneity, and regularity: Quantitative correlations between topology and thermoresponsive morphology of PNIPAM-co-PAA microgel coatings. <i>Applied Surface Science</i> , 2020, 508, 145129.	6.1	8
53	Chitosan Hydrogels for Synergistic Delivery of Chemotherapeutics to Triple Negative Breast Cancer Cells and Spheroids. <i>Pharmaceutical Research</i> , 2020, 37, 142.	3.5	8
54	Synthetic Platelet Microgels Containing Fibrin Knob B Mimetic Motifs Enhance Clotting Responses. <i>Advanced Therapeutics</i> , 2021, 4, 2100010.	3.2	8

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55	Treating Tumors at Low Drug Doses Using an Aptamerâ€“Peptide Synergistic Drug Conjugate. <i>Angewandte Chemie</i> , 2019, 131, 1451-1455.	2.0	7
56	Use of Target-Displaying Magnetized Yeast in Screening mRNA-Display Peptide Libraries to Identify Ligands. <i>ACS Combinatorial Science</i> , 2020, 22, 738-744.	3.8	7
57	DendriPeps: Expanding Dendrimer Functionality by Hybridizing Poly(amidoamine) (PAMAM) Scaffolds with Peptide Segments. <i>Macromolecular Rapid Communications</i> , 2019, 40, 1900325.	3.9	6
58	Dual-Affinity Ratiometric Quenching (DARQ) Assay for the Quantification of Therapeutic Antibodies in CHO-S Cell Culture Fluids. <i>Analytical Chemistry</i> , 2020, 92, 16274-16283.	6.5	6
59	Purification of animal immunoglobulin G (<sc>IgG</sc>) using peptoid affinity ligands. <i>Biotechnology Progress</i> , 2020, 36, e2994.	2.6	6
60	Novel peptoid-based adsorbents for purifying IgM and IgG from polyclonal and recombinant sources. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2020, 1137, 121909.	2.3	5
61	Dual-Responsive Microgels for Structural Repair and Recovery of Nonwoven Membranes for Liquid Filtration. <i>ACS Applied Polymer Materials</i> , 2021, 3, 1508-1517.	4.4	5
62	Chromatographic assay to probe the binding energy and mechanisms of homologous proteins to surface-bound ligands. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2020, 1136, 121927.	2.3	4
63	Development of Peptide Ligands for Targeted Capture of Host Cell Proteins from Cell Culture Production Harvests. <i>Methods in Molecular Biology</i> , 2021, 2261, 489-506.	0.9	4
64	Design and in situ biosynthesis of precision therapies against gastrointestinal pathogens. <i>Current Opinion in Physiology</i> , 2021, 23, 100453.	1.8	3
65	Exploring the physicochemical and morphological properties of peptideâ€“hybridized dendrimers (<sc>DendriPeps</sc>) and their aggregates. <i>Journal of Polymer Science</i> , 2020, 58, 2234-2247.	3.8	2
66	Purification of polyclonal immunoglobulin G from human serum using peptideâ€“based adsorbents. <i>AIChE Journal</i> , 2021, 67, e17482.	3.6	1
67	Isolation of Single-Domain Antibodies to Transmembrane Proteins Using Magnetized Yeast Cell Targets. <i>Methods in Molecular Biology</i> , 2022, 2446, 95-119.	0.9	0
68	Discovery of Cyclic Peptide Binders from Chemically Constrained Yeast Display Libraries. <i>Methods in Molecular Biology</i> , 2022, 2491, 387-415.	0.9	0