Filippo Rossi

List of Publications by Year in descending order

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101543 6,053 138 36 citations h-index papers

g-index 142 142 142 7354 docs citations times ranked citing authors all docs

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#	Article	IF	CITATIONS
1	A perspective on the applications of functionalized nanogels: promises and challenges. International Materials Reviews, 2023, 68, 1-25.	19.3	25
2	Design and clinical application of injectable hydrogels for musculoskeletal therapy. Bioengineering and Translational Medicine, 2022, 7, .	7.1	29
3	Mathematical modelling of cross-linked polyacrylic-based hydrogels: physical properties and drug delivery. Drug Delivery and Translational Research, 2022, 12, 1928-1942.	5.8	4
4	Layer-by-layer polymeric deposition as an efficient strategy to sustain drug release. Current Pharmaceutical Biotechnology, 2022, 23, .	1.6	0
5	Polymer-based thermoresponsive hydrogels for controlled drug delivery. Expert Opinion on Drug Delivery, 2022, 19, 1203-1215.	5.0	11
6	Biomaterials, spinal cord injury, and rehabilitation: A new narrative., 2022,, 549-562.		0
7	Photoactive polymers-decorated Cu-Al layered double hydroxide hexagonal architectures: A potential non-viral vector for photothermal therapy and co-delivery of DOX/pCRISPR. Chemical Engineering Journal, 2022, 448, 137747.	12.7	24
8	Biomaterial-Mediated Factor Delivery for Spinal Cord Injury Treatment. Biomedicines, 2022, 10, 1673.	3.2	9
9	Synthesis and characterization of carbomer-based hydrogels for drug delivery applications. International Journal of Polymeric Materials and Polymeric Biomaterials, 2021, 70, 743-753.	3.4	5
10	3D integration of pH-cleavable drug-hydrogel conjugates on magnetically driven smart microtransporters. Materials and Design, 2021, 197, 109212.	7.0	14
11	Functionalized nanogel for treating activated astrocytes in spinal cord injury. Journal of Controlled Release, 2021, 330, 218-228.	9.9	25
12	Functionalization of polymers and nanomaterials for water treatment, food packaging, textile and biomedical applications: a review. Environmental Chemistry Letters, 2021, 19, 583-611.	16.2	112
13	Advances in Bio-Based Polymers for Colorectal Cancer Treatment: Hydrogels and Nanoplatforms. Gels, 2021, 7, 6.	4.5	15
14	Sensing Materials: Hydrogels and Their Applications. , 2021, , .		0
15	Drug Delivery (Nano)Platforms for Oral and Dental Applications: Tissue Regeneration, Infection Control, and Cancer Management. Advanced Science, 2021, 8, 2004014.	11.2	100
16	Functionalization of Nylon-6,6 with Polyetheramine Improves Wettability and Antibacterial Properties. Industrial & Engineering Chemistry Research, 2021, 60, 10666-10673.	3.7	5
17	Simultaneous crosslinking induces macroscopically phase-separated microgel from a homogeneous mixture of multiple polymers. Applied Materials Today, 2021, 22, 100937.	4.3	8
18	Biohybrid Bovine Bone Matrix for Controlled Release of Mesenchymal Stem/Stromal Cell Lyosecretome: A Device for Bone Regeneration. International Journal of Molecular Sciences, 2021, 22, 4064.	4.1	9

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19	Effect of surface decoration on properties and drug release ability of nanogels. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 614, 126164.	4.7	12
20	Can nanostructures improve hydrogel-based biosensors performance?. Nanomedicine, 2021, 16, 681-683.	3.3	4
21	Nano-encapsulation of hydroxytyrosol into formulated nanogels improves therapeutic effects against hepatic steatosis: An in vitro study. Materials Science and Engineering C, 2021, 124, 112080.	7.3	12
22	Effect of Different Physical Cross-Linkers on Drug Release from Hydrogel Layers Coated on Magnetically Steerable 3D-Printed Microdevices. Technologies, 2021, 9, 43.	5.1	1
23	Can gold nanoparticles improve delivery performance of polymeric drug-delivery systems?. Therapeutic Delivery, 2021, 12, 489-492.	2.2	1
24	Antimicrobial Ionic Liquidâ€Based Materials for Biomedical Applications. Advanced Functional Materials, 2021, 31, 2104148.	14.9	116
25	Electroconductive multi-functional polypyrrole composites for biomedical applications. Applied Materials Today, 2021, 24, 101117.	4.3	49
26	Graphene Oxide-Chitosan Aerogels: Synthesis, Characterization, and Use as Adsorbent Material for Water Contaminants. Gels, 2021, 7, 149.	4.5	12
27	Computational fluid dynamic models as tools to predict aerosol distribution in tracheobronchial airways. Scientific Reports, 2021, 11, 1109.	3.3	14
28	Biphasic Porous Structures formed by Monomer/Water Interface Stabilization with Colloidal Nanoparticles. Advanced Materials Interfaces, 2021, 8, 2100991.	3.7	4
29	Graphene nanoplatelets can improve the performances of graphene oxide – polyaniline composite gas sensing aerogels. Carbon Trends, 2021, 5, 100123.	3.0	5
30	Antimicrobial Ionic Liquidâ€Based Materials for Biomedical Applications (Adv. Funct. Mater. 42/2021). Advanced Functional Materials, 2021, 31, 2170312.	14.9	3
31	Layer-by-Layer Fabrication of Hydrogel Microsystems for Controlled Drug Delivery From Untethered Microrobots. Frontiers in Bioengineering and Biotechnology, 2021, 9, 692648.	4.1	3
32	The addition of hyaluronic acid in chemical hydrogels can tune the physical properties and degradability. European Polymer Journal, 2021, 161, 110843.	5.4	5
33	Biphasic Porous Structures formed by Monomer/Water Interface Stabilization with Colloidal Nanoparticles (Adv. Mater. Interfaces 21/2021). Advanced Materials Interfaces, 2021, 8, 2170119.	3.7	0
34	î²-Cyclodextrin Nanosponge Hydrogels as Drug Delivery Nanoarchitectonics for Multistep Drug Release Kinetics. ACS Applied Polymer Materials, 2021, 3, 6562-6571.	4.4	17
35	Progress in Conductive Polyaniline-Based Nanocomposites for Biomedical Applications: A Review. Journal of Medicinal Chemistry, 2020, 63, 1-22.	6.4	302
36	Introduction to spinal cord injury as clinical pathology. , 2020, , 1-12.		3

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37	Effects of primary amine-based coatings on microglia internalization of nanogels. Colloids and Surfaces B: Biointerfaces, 2020, 185, 110574.	5.0	7
38	Ester coupling of ibuprofen in hydrogel matrix: A facile one-step strategy for controlled anti-inflammatory drug release. European Journal of Pharmaceutics and Biopharmaceutics, 2020, 146, 143-149.	4.3	22
39	Selective Modulation of A1 Astrocytes by Drug-Loaded Nano-Structured Gel in Spinal Cord Injury. ACS Nano, 2020, 14, 360-371.	14.6	94
40	Influence of the Core Formulation on Features and Drug Delivery Ability of Carbamate-Based Nanogels. International Journal of Molecular Sciences, 2020, 21, 6621.	4.1	6
41	Progress in hydrogels for sensing applications: a review. Materials Today Chemistry, 2020, 17, 100317.	3.5	73
42	Editorial: Nanosized Drug Delivery Systems: Colloids and Gels for Site Specific Targeting. Frontiers in Bioengineering and Biotechnology, 2020, 8, 803.	4.1	2
43	<i>In vivo</i> drug delivery applications of nanogels: a review. Nanomedicine, 2020, 15, 2707-2727.	3.3	45
44	Inorganic–organic core/shell nanoparticles: progress and applications. Nanoscale Advances, 2020, 2, 5090-5105.	4.6	54
45	Electrodeposition of Tin onto Zinc for the Electrochemical Synthesis of Zn/Sn/Cu Precursor Stack for CZTSâ€Based Photoconversion Devices. ChemElectroChem, 2020, 7, 4084-4092.	3.4	3
46	Regenerative medicine for spinal cord injury: focus on stem cells and biomaterials. Expert Opinion on Biological Therapy, 2020, 20, 1203-1213.	3.1	20
47	Trends in regenerative therapies, combination approaches, and clinical highlights for spinal cord injury (SCI) regeneration., 2020,, 307-312.		O
48	Functionalization of Polymers and Nanomaterials for Biomedical Applications: Antimicrobial Platforms and Drug Carriers. Prosthesis, 2020, 2, 117-139.	2.9	46
49	Coating and Functionalization Strategies for Nanogels and Nanoparticles for Selective Drug Delivery. Gels, 2020, 6, 6.	4.5	71
50	Optimized Design and Development of a Bioresorbable High Rotational Stability Fixation System for Small Bone Fragments. Advanced Engineering Materials, 2020, 22, 1901505.	3.5	1
51	Plasmonic control of drug release efficiency in agarose gel loaded with gold nanoparticle assemblies. Nanophotonics, 2020, 10, 247-257.	6.0	20
52	Is nanoparticle functionalization a versatile approach to meet the challenges of drug and gene delivery?. Therapeutic Delivery, 2020, 11, 401-404.	2.2	9
53	G7 Young Scientists Meeting: Citizen science for updating "science―in the SDGs era. Trends in the Sciences, 2020, 25, 4_46-4_48.	0.0	0
54	Polysaccharide-based scaffold for tissue-regeneration. , 2019, , 189-212.		3

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55	On the ability of chromatographic mass balance to predict solute diffusivity in drug delivery systems. AICHE Journal, 2019, 65, e16709.	3.6	O
56	A Perspective on Polylactic Acid-Based Polymers Use for Nanoparticles Synthesis and Applications. Frontiers in Bioengineering and Biotechnology, 2019, 7, 259.	4.1	285
57	Design of polymer-based antimicrobial hydrogels through physico-chemical transition. Materials Science and Engineering C, 2019, 103, 109791.	7.3	12
58	Evidence of superdiffusive nanoscale motion in anionic polymeric hydrogels: Analysis of PGSE- NMR data and comparison with drug release properties. Journal of Controlled Release, 2019, 305, 110-119.	9.9	13
59	Stem cell paracrine effect and delivery strategies for spinal cord injury regeneration. Journal of Controlled Release, 2019, 300, 141-153.	9.9	56
60	Hybrid Nanogels: Stealth and Biocompatible Structures for Drug Delivery Applications. Pharmaceutics, 2019, 11, 71.	4.5	36
61	Nanovector-Mediated Drug Delivery in Spinal Cord Injury: A Multitarget Approach. ACS Chemical Neuroscience, 2019, 10, 1173-1182.	3.5	20
62	A mathematical model of a slurry reactor for the direct synthesis of hydrogen peroxide. Reaction Chemistry and Engineering, 2019, 4, 2117-2128.	3.7	1
63	How can nanovectors be used to treat spinal cord injury?. Nanomedicine, 2019, 14, 3123-3125.	3.3	3
64	Zinc electrodeposition from a chloride-free non-aqueous solution based on ethylene glycol and acetate salts. Electrochimica Acta, 2019, 296, 465-472.	5.2	33
65	Bone grafts: which is the ideal biomaterial?. Journal of Clinical Periodontology, 2019, 46, 92-102.	4.9	316
66	Improving Bovine Bone Mechanical Characteristics for the Development of Xenohybrid Bone Grafts. Current Pharmaceutical Biotechnology, 2019, 19, 1005-1013.	1.6	18
67	Theoretical Investigation of Design Space for Multi Layer Drug Eluting Bioresorbable Suture Threads. Current Pharmaceutical Biotechnology, 2019, 20, 332-345.	1.6	3
68	Neurobiological Mechanisms of Responding to Injustice. Journal of Neuroscience, 2018, 38, 2944-2954.	3.6	66
69	Mesenchymal stem cells encapsulated into biomimetic hydrogel scaffold gradually release CCL2 chemokine in situ preserving cytoarchitecture and promoting functional recovery in spinal cord injury. Journal of Controlled Release, 2018, 278, 49-56.	9.9	80
70	Evaluation of RGD functionalization in hybrid hydrogels as 3D neural stem cell culture systems. Biomaterials Science, 2018, 6, 501-510.	5.4	37
71	Microwave-assisted synthesis of TEMPO-labeled hydrogels traceable with MRI. Soft Matter, 2018, 14, 558-565.	2.7	15
72	Nanogel Functionalization: A Versatile Approach To Meet the Challenges of Drug and Gene Delivery. ACS Applied Nano Materials, 2018, 1, 6525-6541.	5.0	60

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73	Hydrogel-Nanoparticles Composite System for Controlled Drug Delivery. Gels, 2018, 4, 74.	4.5	31
74	A Methodologic Approach for the Selection of Bio-Resorbable Polymers in the Development of Medical Devices: The Case of Poly(l-lactide-co-ε-caprolactone). Polymers, 2018, 10, 851.	4.5	25
75	PEGylation influences drug delivery from nanogels. Journal of Drug Delivery Science and Technology, 2018, 46, 87-92.	3.0	12
76	Scaffolds as Structural Tools for Bone-Targeted Drug Delivery. Pharmaceutics, 2018, 10, 122.	4. 5	52
77	Novel functionalization strategies to improve drug delivery from polymers. Expert Opinion on Drug Delivery, 2017, 14, 1305-1313.	5.0	23
78	On the parallelism between the mechanisms behind chromatography and drug delivery: the role of interactions with a stationary phase. Physical Chemistry Chemical Physics, 2017, 19, 11518-11528.	2.8	8
79	Modulation of electrostatic interactions to improve controlled drug delivery from nanogels. Materials Science and Engineering C, 2017, 72, 308-315.	7.3	37
80	Double conjugated nanogels for selective intracellular drug delivery. RSC Advances, 2017, 7, 30345-30356.	3.6	15
81	Current Options for Cell Therapy in Spinal Cord Injury. Trends in Molecular Medicine, 2017, 23, 831-849.	6.7	141
82	Chemoselective functionalization of nanogels for microglia treatment. European Polymer Journal, 2017, 94, 143-151.	5.4	17
83	Synthesis and processing ofÂhydrogels for medical applications. , 2017, , 205-228.		9
84	Click chemistry for improving properties of bioresorbable polymers for medical applications. , 2017, , 303-329.		5
85	Comparison of SFA lesion treatment with Zilver PTX in diabetics vs. non-diabetics: 2-year clinical and functional results. Journal of Cardiovascular Surgery, 2017, 58, 565-573.	0.6	4
86	In Silico Study of Polymer Sheet Drying Process. International Polymer Processing, 2017, 32, 474-482.	0.5	0
87	Comparison between two different click strategies to synthesize fluorescent nanogels for therapeutic applications. Reactive and Functional Polymers, 2016, 105, 35-44.	4.1	22
88	The Role of Drug–Drug Interactions in Hydrogel Delivery Systems: Experimental and Model Study. ChemPhysChem, 2016, 17, 1615-1622.	2.1	14
89	Overview on Polymeric Drug Delivery Systems. SpringerBriefs in Applied Sciences and Technology, 2016, , 35-59.	0.4	1
90	Device Design: Functional Polymers for Drug Delivery. SpringerBriefs in Applied Sciences and Technology, 2016, , 61-81.	0.4	0

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91	Controlled Drug Delivery Systems. SpringerBriefs in Applied Sciences and Technology, 2016, , .	0.4	2
92	Tunable drug delivery using chemoselective functionalization of hydrogels. Materials Science and Engineering C, 2016, 61, 851-857.	7.3	33
93	Hydrogel supported chiral imidazolidinone for organocatalytic enantioselective reduction of olefins in water. Chemical Papers, 2016, 70, .	2.2	2
94	Non-invasive in vitro and in vivo monitoring of degradation of fluorescently labeled hyaluronan hydrogels for tissue engineering applications. Acta Biomaterialia, 2016, 30, 188-198.	8.3	80
95	Case Study: Drug Eluting Stent. SpringerBriefs in Applied Sciences and Technology, 2016, , 83-100.	0.4	O
96	Modulators of microglia: a patent review. Expert Opinion on Therapeutic Patents, 2016, 26, 427-437.	5.0	23
97	A new three dimensional biomimetic hydrogel to deliver factors secreted by human mesenchymal stem cells in spinal cord injury. Biomaterials, 2016, 75, 135-147.	11.4	141
98	Early modulation of pro-inflammatory microglia by minocycline loaded nanoparticles confers long lasting protection after spinal cord injury. Biomaterials, 2016, 75, 13-24.	11.4	110
99	The Synthesis of RGD-functionalized Hydrogels as a Tool for Therapeutic Applications. Journal of Visualized Experiments, 2016, , .	0.3	8
100	Principles of Controlled Drug Release: A Mass Transport Matter. SpringerBriefs in Applied Sciences and Technology, 2016, , 9-33.	0.4	0
101	Simple and efficient strategy to synthesize PEGâ€aldehyde derivatives for hydrazone orthogonal chemistry. Polymers for Advanced Technologies, 2015, 26, 1456-1460.	3.2	11
102	Polymer hydrogel functionalized with biodegradable nanoparticles as composite system for controlled drug delivery. Nanotechnology, 2015, 26, 015602.	2.6	40
103	Multidrug encapsulation within self-assembled 3D structures formed by biodegradable nanoparticles. European Polymer Journal, 2015, 68, 216-225.	5.4	5
104	Drug–Polymer Interactions in Hydrogelâ€based Drugâ€Delivery Systems: An Experimental and Theoretical Study. ChemPhysChem, 2015, 16, 2818-2825.	2.1	23
105	Polymeric scaffolds as stem cell carriers in bone repair. Journal of Tissue Engineering and Regenerative Medicine, 2015, 9, 1093-1119.	2.7	41
106	A Kinetic Analysis of the Growth and Doping Kinetics of the SiC Chemical Vapor Deposition Process. Industrial & Chemistry Research, 2014, 53, 9076-9087.	3.7	13
107	Microwave-assisted synthesis and click chemistry as simple and efficient strategy for RGD functionalized hydrogels. Tetrahedron Letters, 2014, 55, 6817-6820.	1.4	22
108	Mathematical Modeling of PLGA Microparticles: From Polymer Degradation to Drug Release. Molecular Pharmaceutics, 2014, 11, 4036-4048.	4.6	71

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109	Nanovectorâ€mediated drug delivery for spinal cord injury treatment. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2014, 6, 506-515.	6.1	24
110	Polymer Functionalization as a Powerful Tool to Improve Scaffold Performances. Tissue Engineering - Part A, 2014, 20, 2043-2051.	3.1	38
111	Polymeric nanoparticle system to target activated microglia/macrophages in spinal cord injury. Journal of Controlled Release, 2014, 174, 15-26.	9.9	100
112	Selective Nanovector Mediated Treatment of Activated Proinflammatory Microglia/Macrophages in Spinal Cord Injury. ACS Nano, 2013, 7, 9881-9895.	14.6	136
113	Tunable hydrogelâ€"Nanoparticles release system for sustained combination therapies in the spinal cord. Colloids and Surfaces B: Biointerfaces, 2013, 108, 169-177.	5.0	38
114	Current options for drug delivery to the spinal cord. Expert Opinion on Drug Delivery, 2013, 10, 385-396.	5.0	61
115	Bioresorbable Polymer Coated Drug Eluting Stent: A Model Study. Molecular Pharmaceutics, 2012, 9, 1898-1910.	4.6	35
116	Sustained Delivery of Chondroitinase ABC from Hydrogel System. Journal of Functional Biomaterials, 2012, 3, 199-208.	4.4	16
117	Chemical engineering approach to regenerative medicine. Chemical Papers, 2012, 66, .	2.2	0
118	Multiple drug delivery hydrogel system for spinal cord injury repair strategies. Journal of Controlled Release, 2012, 159, 271-280.	9.9	84
119	Synthesis and degradation of agarâ€carbomer based hydrogels for tissue engineering applications. Journal of Applied Polymer Science, 2012, 123, 398-408.	2.6	12
120	A library of tunable agarose carbomerâ€based hydrogels for tissue engineering applications: The role of crossâ€linkers. Journal of Applied Polymer Science, 2012, 123, 2211-2221.	2.6	22
121	Hydrogels in Spinal Cord Injury Repair Strategies. ACS Chemical Neuroscience, 2011, 2, 336-345.	3.5	142
122	Smart Approach To Evaluate Drug Diffusivity in Injectable Agarâ'Carbomer Hydrogels for Drug Delivery. Journal of Physical Chemistry B, 2011, 115, 2503-2510.	2.6	79
123	Hydrogel for Cell Housing in the Brain and in the Spinal Cord. International Journal of Artificial Organs, 2011, 34, 295-303.	1.4	19
124	Synthesis and characterization of lanthanum bonded agar-carbomer hydrogel: a promising tool for biomedical research. Journal of Rare Earths, 2011, 29, 259-264.	4.8	4
125	In situ agar–carbomer hydrogel polycondensation: A chemical approach to regenerative medicine. Materials Letters, 2011, 65, 1688-1692.	2.6	21
126	Methylprednisolone release from agar-Carbomer-based hydrogel: a promising tool for local drug delivery. Chemical Papers, 2011, 65, .	2.2	3

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127	Drug Release from Hydrogel: A New Understanding of Transport Phenomena. Journal of Biomedical Nanotechnology, 2011, 7, 476-481.	1.1	22
128	Structural Characterization of Poly-L-lactic Acid (PLLA) and Poly(glycolic acid)(PGA) Oligomers. International Journal of Molecular Sciences, 2011, 12, 3857-3870.	4.1	15
129	Characterization and Degradation Behavior of Agar–Carbomer Based Hydrogels for Drug Delivery Applications: Solute Effect. International Journal of Molecular Sciences, 2011, 12, 3394-3408.	4.1	32
130	Biological buffered saline solution as solvent in agar-carbomer hydrogel synthesis. Chemical Papers, 2010, 64, .	2.2	25
131	Astrocytes Regulate the Expression of Insulin-Like Growth Factor 1 Receptor (IGF1-R) in Primary Cortical Neurons During In Vitro Senescence. Journal of Molecular Neuroscience, 2010, 40, 342-352.	2.3	14
132	Mechanisms of expression of NADPH oxidase components in human cultured monocytes: role of cytokines and transcriptional regulators involved. European Journal of Immunology, 2001, 31, 929-938.	2.9	47
133	Tyrosine phosphorylation and subcellular redistribution of p125 ras guanosine triphosphatase-activating protein in human neutrophils stimulated with FMLP. FEBS Letters, 1996, 383, 181-184.	2.8	6
134	Mechanisms of NADPH oxidase activation: translocation of p40phox, Rac1 and Rac2 from the cytosol to the membranes in human neutrophils lacking p47phox or p67phox. Biochemical Journal, 1996, 314, 409-412.	3.7	117
135	Activation of microglial cells by β-amyloid protein and interferon-γ. Nature, 1995, 374, 647-650.	27.8	1,312
136	Phagocytosis of Opsonized Yeast Induces Tumor Necrosis Factor-α mRNA Accumulation and Protein Release by Human Polymorphonuclear Leukocytes. Journal of Leukocyte Biology, 1991, 50, 223-228.	3.3	79
137	Studies on the gene expression of several NADPH oxidase components. Biochemical Society Transactions, 1991, 19, 63-67.	3.4	19
138	Selective nanovector mediated treatment of activated microglia in spinal cord injury. Frontiers in Bioengineering and Biotechnology, 0, 4, .	4.1	0