

Luigi Ambrosio

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

178 papers	8,006 citations	51 h-index	81 g-index
187 ext. papers	8,834 ext. citations	4.4 avg, IF	6.3 L-index

#	Paper	IF	Citations
178	Embedding of $RCD^*(K,N)$ spaces in L^2 via eigenfunctions. <i>Journal of Functional Analysis</i> , 2021 , 280, 1089684	1.4	2
177	Spatially Inhomogeneous Evolutionary Games. <i>Communications on Pure and Applied Mathematics</i> , 2021 , 74, 1353-1402	2.5	1
176	Duality properties of metric Sobolev spaces and capacity. <i>Mathematics in Engineering</i> , 2021 , 3, 1-31	1.2	
175	Linear extension operators between spaces of Lipschitz maps and optimal transport. <i>Journal Fur Die Reine Und Angewandte Mathematik</i> , 2020 , 2020, 1-21	1.2	8
174	Rigidity of the 1-Bakry-Emery Inequality and Sets of Finite Perimeter in RCD Spaces. <i>Geometric and Functional Analysis</i> , 2019 , 29, 949-1001	1.2	8
173	CALCULUS, HEAT FLOW AND CURVATURE-DIMENSION BOUNDS IN METRIC MEASURE SPACES 2019 ,		11
172	A PDE approach to a 2-dimensional matching problem. <i>Probability Theory and Related Fields</i> , 2019 , 173, 433-477	1.4	26
171	Weighted Sobolev spaces on metric measure spaces. <i>Journal Fur Die Reine Und Angewandte Mathematik</i> , 2019 , 2019, 39-65	1.2	6
170	Continuity of nonlinear eigenvalues in $(\mathrm{CD})(K,\infty)$ spaces with respect to measured Gromov-Hausdorff convergence. <i>Calculus of Variations and Partial Differential Equations</i> , 2018 , 57, 1	1.5	4
169	Partial regularity for mass-minimizing currents in Hilbert spaces. <i>Journal Fur Die Reine Und Angewandte Mathematik</i> , 2018 , 2018, 99-144	1.2	3
168	Local spectral convergence in $RCD^*(K,N)$ spaces. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2018 , 177, 1-23	1.3	9
167	Short-time behavior of the heat kernel and Weyl law on $(\mathrm{RCD})^*(K,N)$ spaces. <i>Annals of Global Analysis and Geometry</i> , 2018 , 53, 97-119	0.6	13
166	Lusin-type approximation of Sobolev by Lipschitz functions, in Gaussian and $RCD(K,\infty)$ spaces. <i>Advances in Mathematics</i> , 2018 , 339, 426-452	1.3	8
165	Gaussian optimizers for entropic inequalities in quantum information. <i>Journal of Mathematical Physics</i> , 2018 , 59, 081101	1.2	15
164	DC calculus. <i>Mathematische Zeitschrift</i> , 2018 , 288, 1037-1080	0.7	9
163	Weak and strong convergence of derivations and stability of flows with respect to MGH convergence. <i>Journal of Functional Analysis</i> , 2017 , 272, 1182-1229	1.4	17
162	Well posedness of ODEs and continuity equations with nonsmooth vector fields, and applications. <i>Revista Matematica Complutense</i> , 2017 , 30, 427-450	0.8	9

161	New stability results for sequences of metric measure spaces with uniform Ricci bounds from below 2017 , 1-51		10
160	Lecture notes on the DiPerna-Lions theory in abstract measure spaces. <i>Annales De La Faculté Des Sciences De Toulouse</i> , 2017 , 26, 729-766	0.3	8
159	Ibuprofen-loaded poly(trimethylene carbonate-co-ε-caprolactone) electrospun fibres for nerve regeneration. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2016 , 10, E154-66	4.4	38
158	Behaviour of human mesenchymal stem cells on chemically synthesized HA-PCL scaffolds for hard tissue regeneration. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2016 , 10, E147-54	4.4	35
157	Fundamental Properties of Bioceramics and Biocomposites 2016 , 35-58		4
156	Cellulose-based porous scaffold for bone tissue engineering applications: Assessment of hMSC proliferation and differentiation. <i>Journal of Biomedical Materials Research - Part A</i> , 2016 , 104, 726-733	5.4	26
155	Needle-like ion-doped hydroxyapatite crystals influence osteogenic properties of PCL composite scaffolds. <i>Biomedical Materials (Bristol)</i> , 2016 , 11, 015018	3.5	15
154	Bio-safe processing of polylactic-co-caprolactone and polylactic acid blends to fabricate fibrous porous scaffolds for in vitro mesenchymal stem cells adhesion and proliferation. <i>Materials Science and Engineering C</i> , 2016 , 63, 512-21	8.3	18
153	Spontaneous arrangement of a tumor targeting hyaluronic acid shell on irinotecan loaded PLGA nanoparticles. <i>Carbohydrate Polymers</i> , 2016 , 140, 400-7	10.3	28
152	Bicomponent electrospun scaffolds to design extracellular matrix tissue analogs. <i>Expert Review of Medical Devices</i> , 2016 , 13, 83-102	3.5	43
151	Electro-Active Polymers (EAPs): A Promising Route to Design Bio-Organic/Bioinspired Platforms with on Demand Functionalities. <i>Polymers</i> , 2016 , 8,	4.5	49
150	Scanning Small- and Wide-Angle X-ray Scattering Microscopy Selectively Probes HA Content in Gelatin/Hydroxyapatite Scaffolds for Osteochondral Defect Repair. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 8728-36	9.5	17
149	Optimal transport, Cheeger energies and contractivity of dynamic transport distances in extended spaces. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2016 , 137, 77-134	1.3	11
148	Stimuli-responsive chitosan/poly (N-isopropylacrylamide) semi-interpenetrating polymer networks: effect of pH and temperature on their rheological and swelling properties. <i>Journal of Materials Science: Materials in Medicine</i> , 2016 , 27, 109	4.5	13
147	Borate cross-linked graphene oxide-chitosan as robust and high gas barrier films. <i>Nanoscale</i> , 2016 , 8, 10783-91	7.7	49
146	Metal-Based Antibacterial Substrates for Biomedical Applications. <i>Biomacromolecules</i> , 2015 , 16, 1873-856.9	5.9	117
145	Tensorization of Cheeger energies, the space $H^{1,1}$ and the area formula for graphs. <i>Advances in Mathematics</i> , 2015 , 281, 1145-1177	1.3	10
144	Ionic liquids as dynamic templating agents for sol-gel silica systems: synergistic anion and cation effect on the silica structured growth. <i>Journal of Sol-Gel Science and Technology</i> , 2015 , 76, 414-427	2.3	16

143	Collagen-low molecular weight hyaluronic acid semi-interpenetrating network loaded with gelatin microspheres for cell and growth factor delivery for nucleus pulposus regeneration. <i>Acta Biomaterialia</i> , 2015 , 20, 10-21	10.8	83
142	Existence and Uniqueness of Maximal Regular Flows for Non-smooth Vector Fields. <i>Archive for Rational Mechanics and Analysis</i> , 2015 , 218, 1043-1081	2.3	19
141	Bakry's curvature-dimension condition and Riemannian Ricci curvature bounds. <i>Annals of Probability</i> , 2015 , 43,	1.9	100
140	Riemannian Ricci curvature lower bounds in metric measure spaces with σ -finite measure. <i>Transactions of the American Mathematical Society</i> , 2015 , 367, 4661-4701	1	73
139	Polymer-based platforms by electric field-assisted techniques for tissue engineering and cancer therapy. <i>Expert Review of Medical Devices</i> , 2015 , 12, 113-29	3.5	45
138	Gas-Barrier Hybrid Coatings by the Assembly of Novel Poly(vinyl alcohol) and Reduced Graphene Oxide Layers through Cross-Linking with Zirconium Adducts. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 22678-85	9.5	31
137	3D fibre deposition and stereolithography techniques for the design of multifunctional nanocomposite magnetic scaffolds. <i>Journal of Materials Science: Materials in Medicine</i> , 2015 , 26, 250	4.5	53
136	Towards the Design of 3D Fiber-Deposited Poly(ϵ -caprolactone)/Iron-Doped Hydroxyapatite Nanocomposite Magnetic Scaffolds for Bone Regeneration. <i>Journal of Biomedical Nanotechnology</i> , 2015 , 11, 1236-46	4	97
135	Hydrogels for central nervous system therapeutic strategies. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2015 , 229, 905-16	1.7	10
134	Improving surface and transport properties of macroporous hydrogels for bone regeneration. <i>Journal of Biomedical Materials Research - Part A</i> , 2015 , 103, 1095-105	5.4	9
133	Galactose grafting on poly(ϵ -caprolactone) substrates for tissue engineering: a preliminary study. <i>Carbohydrate Research</i> , 2015 , 405, 39-46	2.9	23
132	Electro fluid dynamic techniques to design instructive biomaterials for tissue engineering and drug delivery 2015 ,		2
131	Additive electrospraying: a route to process electrospun scaffolds for controlled molecular release. <i>Polymers for Advanced Technologies</i> , 2015 , 26, 1359-1369	3.2	33
130	Hyaluronic Acid Based Hydrogels for Regenerative Medicine Applications. <i>BioMed Research International</i> , 2015 , 2015, 871218	3	69
129	Monolithic polymeric aerogels with VOCs sorbent nanoporous crystalline and water sorbent amorphous phases. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 1318-26	9.5	21
128	Effects on growth and osteogenic differentiation of mesenchymal stem cells by the strontium-added sol-gel hydroxyapatite gel materials. <i>Journal of Materials Science: Materials in Medicine</i> , 2015 , 26, 90	4.5	37
127	Bioactivity and bone healing properties of biomimetic porous composite scaffold: in vitro and in vivo studies. <i>Journal of Biomedical Materials Research - Part A</i> , 2015 , 103, 2932-41	5.4	25
126	The role of the surface on microglia function: implications for central nervous system tissue engineering. <i>Journal of the Royal Society Interface</i> , 2015 , 12,	4.1	17

125	Design of electrosprayed non-spherical poly (L-lactide-co-glicolide) microdevices for sustained drug delivery. <i>Journal of Materials Science: Materials in Medicine</i> , 2014 , 25, 383-90	4.5	16
124	Metric measure spaces with Riemannian Ricci curvature bounded from below. <i>Duke Mathematical Journal</i> , 2014 , 163,	1.9	182
123	On a class of first order Hamilton-Jacobi equations in metric spaces. <i>Journal of Differential Equations</i> , 2014 , 256, 2194-2245	2.1	33
122	The role of reduced graphene oxide on chemical, mechanical and barrier properties of natural rubber composites. <i>Composites Science and Technology</i> , 2014 , 102, 74-81	8.6	98
121	A comparison of the performance of mono- and bi-component electrospun conduits in a rat sciatic model. <i>Biomaterials</i> , 2014 , 35, 8970-82	15.6	53
120	Slopes of Kantorovich potentials and existence of optimal transport maps in metric measure spaces. <i>Annali Di Matematica Pura Ed Applicata</i> , 2014 , 193, 71-87	0.8	3
119	Optimization of fully aligned bioactive electrospun fibers for "in vitro" nerve guidance. <i>Journal of Materials Science: Materials in Medicine</i> , 2014 , 25, 2323-32	4.5	48
118	Large defect-tailored composite scaffolds for in vivo bone regeneration. <i>Journal of Biomaterials Applications</i> , 2014 , 29, 715-27	2.9	10
117	Tailoring assembly of reduced graphene oxide nanosheets to control gas barrier properties of natural rubber nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 2230-4	9.5	85
116	Equivalent definitions of BV space and of total variation on metric measure spaces. <i>Journal of Functional Analysis</i> , 2014 , 266, 4150-4188	1.4	54
115	Poly(Epsilon-lysine) dendrons tethered with phosphoserine increase mesenchymal stem cell differentiation potential of calcium phosphate gels. <i>Tissue Engineering - Part A</i> , 2014 , 20, 474-85	3.9	11
114	Well-posedness of Lagrangian flows and continuity equations in metric measure spaces. <i>Analysis and PDE</i> , 2014 , 7, 1179-1234	1.7	43
113	Continuity equations and ODE flows with non-smooth velocity*. <i>Proceedings of the Royal Society of Edinburgh Section A: Mathematics</i> , 2014 , 144, 1191-1244	1	59
112	Preparation and characterization of cellulose-based foams via microwave curing. <i>Interface Focus</i> , 2014 , 4, 20130053	3.9	28
111	Reverse engineering of mandible and prosthetic framework: Effect of titanium implants in conjunction with titanium milled full arch bridge prostheses on the biomechanics of the mandible. <i>Journal of Biomechanics</i> , 2014 , 47, 3825-9	2.9	15
110	MgCHA particles dispersion in porous PCL scaffolds: in vitro mineralization and in vivo bone formation. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2014 , 8, 291-303	4.4	27
109	Calculus and heat flow in metric measure spaces and applications to spaces with Ricci bounds from below. <i>Inventiones Mathematicae</i> , 2014 , 195, 289-391	2.2	178
108	A global existence result for the semigeostrophic equations in three dimensional convex domains. <i>Discrete and Continuous Dynamical Systems</i> , 2014 , 34, 1251-1268	2	19

107	Heat Flow and Calculus on Metric Measure Spaces with Ricci Curvature Bounded Below The Compact Case. <i>Springer INdAM Series</i> , 2013 , 63-115	0.4	7
106	Human skin-derived keratinocytes and fibroblasts co-cultured on 3D poly(ϵ -caprolactone) scaffold support in vitro HSC differentiation into T-lineage committed cells. <i>International Immunology</i> , 2013 , 25, 703-14	4.9	14
105	Glucosamine grafting on poly(ϵ -caprolactone): a novel glycated polyester as a substrate for tissue engineering. <i>RSC Advances</i> , 2013 , 3, 6286	3.7	23
104	Conductive PANi/PEGDA macroporous hydrogels for nerve regeneration. <i>Advanced Healthcare Materials</i> , 2013 , 2, 218-27	10.1	149
103	Systematic Analysis of Injectable Materials and 3D Rapid Prototyped Magnetic Scaffolds: From CNS Applications to Soft and Hard Tissue Repair/Regeneration. <i>Procedia Engineering</i> , 2013 , 59, 233-239		55
102	Thermoset composite hydrogels for bone/intervertebral disc interface. <i>Materials Letters</i> , 2013 , 110, 249-252	3.9	5
101	Rheological and mechanical properties of acellular and cell-laden methacrylated gellan gum hydrogels. <i>Journal of Biomedical Materials Research - Part A</i> , 2013 , 101, 3438-46	5.4	74
100	Compactness results for normal currents and the Plateau problem in dual Banach spaces. <i>Proceedings of the London Mathematical Society</i> , 2013 , 106, 1121-1142	1.2	2
99	Micro/Nanotexturing and Bioactivation Strategies to Design Composite Scaffolds and ECM-Like Analogues. <i>Macromolecular Symposia</i> , 2013 , 331-332, 65-70	0.8	7
98	Development and analysis of semi-interpenetrating polymer networks for brain injection in neurodegenerative disorders. <i>International Journal of Artificial Organs</i> , 2013 , 36, 762-74	1.9	9
97	Hydrogel-based nanocomposites and mesenchymal stem cells: a promising synergistic strategy for neurodegenerative disorders therapy. <i>Scientific World Journal, The</i> , 2013 , 2013, 270260	2.2	20
96	In vivo lamellar bone formation in fibre coated MgCHA-PCL-composite scaffolds. <i>Journal of Materials Science: Materials in Medicine</i> , 2012 , 23, 117-28	4.5	17
95	Rheological characterization of hyaluronic acid derivatives as injectable materials toward nucleus pulposus regeneration. <i>Journal of Biomaterials Applications</i> , 2012 , 26, 745-59	2.9	56
94	Existence of Eulerian Solutions to the Semigeostrophic Equations in Physical Space: The 2-Dimensional Periodic Case. <i>Communications in Partial Differential Equations</i> , 2012 , 37, 2209-2227	1.6	27
93	Tissue engineering for total meniscal substitution: animal study in sheep model--results at 12 months. <i>Tissue Engineering - Part A</i> , 2012 , 18, 1573-82	3.9	88
92	Additive manufacturing of wet-spun polymeric scaffolds for bone tissue engineering. <i>Biomedical Microdevices</i> , 2012 , 14, 1115-27	3.7	100
91	Binary system thermodynamics to control pore architecture of PCL scaffold via temperature-driven phase separation process. <i>Journal of Biomaterials Applications</i> , 2012 , 27, 241-54	2.9	18
90	Calorimetric and thermomechanical properties of titanium-based orthodontic wires: DSC-DMA relationship to predict the elastic modulus. <i>Journal of Biomaterials Applications</i> , 2012 , 26, 829-44	2.9	18

89	Effect of surface fluorination of TiO ₂ particles on photocatalytic activity of a hybrid multilayer coating obtained by sol-gel method. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 150-7	9.5	19
88	Design of injectable organic-inorganic hybrid for bone tissue repair. <i>Journal of Biomedical Materials Research - Part A</i> , 2012 , 100, 2063-70	5.4	27
87	In vitro mineralization and bone osteogenesis in poly(ε-caprolactone)/gelatin nanofibers. <i>Journal of Biomedical Materials Research - Part A</i> , 2012 , 100, 3008-19	5.4	46
86	In silico evaluation of a new composite disc substitute with a L3-L5 lumbar spine finite element model. <i>European Spine Journal</i> , 2012 , 21 Suppl 5, S675-87	2.7	18
85	Design of porous three-dimensional PDLLA/nano-hap composite scaffolds using stereolithography. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2012 , 10, 249-58	1.8	38
84	Biodegradable microparticles and nanoparticles by electrospraying techniques. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2012 , 10, 191-6	1.8	19
83	Osteogenic differentiation and mineralization in fibre-reinforced tubular scaffolds: theoretical study and experimental evidences. <i>Journal of the Royal Society Interface</i> , 2012 , 9, 2201-12	4.1	19
82	Synthesis and characterization of soybean-based hydrogels with an intrinsic activity on cell differentiation. <i>Tissue Engineering - Part A</i> , 2012 , 18, 1932-9	3.9	19
81	Modeling of phase separation mechanism in polycaprolactone/dioxane binary systems. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2012 , 10, 237-42	1.8	1
80	Proliferation and osteoblastic differentiation of hMSCs on cellulose-based hydrogels. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2012 , 10, 302-7	1.8	33
79	Hydrogel-Based Platforms for the Regeneration of Osteochondral Tissue and Intervertebral Disc. <i>Polymers</i> , 2012 , 4, 1590-1612	4.5	44
78	Design of bioactive electrospun scaffolds for bone tissue engineering. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2012 , 10, 223-8	1.8	13
77	Layer-by-layer self-assembly of chitosan and poly(ε-glutamic acid) into polyelectrolyte complexes. <i>Biomacromolecules</i> , 2011 , 12, 4183-95	6.9	92
76	A multi-component fiber-reinforced PHEMA-based hydrogel/HAPEX device for customized intervertebral disc prosthesis. <i>Journal of Biomaterials Applications</i> , 2011 , 25, 795-810	2.9	50
75	Poly(lactic acid)/titanium dioxide nanocomposite films: Influence of processing procedure on dispersion of titanium dioxide and photocatalytic activity. <i>Polymer Composites</i> , 2011 , 32, 519-528	3	39
74	Nanocomposites for neurodegenerative diseases: hydrogel-nanoparticle combinations for a challenging drug delivery. <i>International Journal of Artificial Organs</i> , 2011 , 34, 1115-27	1.9	43
73	Effect of N-acetyl cysteine on orthodontic primers cytotoxicity. <i>Dental Materials</i> , 2011 , 27, 180-6	5.7	5
72	Tuning size scale and crystallinity of PCL electrospun fibres via solvent permittivity to address hMSC response. <i>Macromolecular Bioscience</i> , 2011 , 11, 1694-705	5.5	55

71	Semiclassical limit of quantum dynamics with rough potentials and well-posedness of transport equations with measure initial data. <i>Communications on Pure and Applied Mathematics</i> , 2011 , 64, 1199-1242	2.5	24
70	Influence of electrospun fiber mesh size on hMSC oxygen metabolism in 3D collagen matrices: experimental and theoretical evidences. <i>Biotechnology and Bioengineering</i> , 2011 , 108, 1965-76	4.9	41
69	Design of Functional Polymer and Composite Scaffolds for the Regeneration of Bone, Menisci, Osteochondral and Peripheral Nervous Tissues. <i>Advanced Materials Research</i> , 2011 , 324, 8-13	0.5	3
68	Injectable thermally responsive mucoadhesive gel for sustained protein delivery. <i>Biomacromolecules</i> , 2011 , 12, 28-33	6.9	59
67	Semicrystalline proton-conductive membranes with sulfonated amorphous phases. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 8038-8044	6.7	9
66	Manipulating co-continuous polymer blends to create PCL scaffolds with fully interconnected and anisotropic pore architecture. <i>Journal of Applied Biomaterials and Biomechanics</i> , 2011 , 9, 34-9		4
65	Technical features and criteria in designing fiber-reinforced composite materials: from the aerospace and aeronautical field to biomedical applications. <i>Journal of Applied Biomaterials and Biomechanics</i> , 2011 , 9, 151-63		20
64	Poly(?-Caprolactone) Reinforced with Sol-Gel Synthesized Organic-Inorganic Hybrid Fillers as Composite Substrates for Tissue Engineering. <i>Journal of Applied Biomaterials and Biomechanics</i> , 2010 , 8, 146-152		10
63	Influence of gelatin cues in PCL electrospun membranes on nerve outgrowth. <i>Biomacromolecules</i> , 2010 , 11, 2238-46	6.9	111
62	Regeneration of Achilles' tendon: the role of dynamic stimulation for enhanced cell proliferation and mechanical properties. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2010 , 21, 1173-90	3.5	43
61	Passage from Quantum to Classical Molecular Dynamics in the Presence of Coulomb Interactions. <i>Communications in Partial Differential Equations</i> , 2010 , 35, 1490-1515	1.6	10
60	A degradable soybean-based biomaterial used effectively as a bone filler in vivo in a rabbit. <i>Biomedical Materials (Bristol)</i> , 2010 , 5, 15008	3.5	33
59	Hybrid composite scaffolds prepared by sol-gel method for bone regeneration. <i>Composites Science and Technology</i> , 2010 , 70, 1861-1868	8.6	59
58	Bone regeneration potential of a soybean-based filler: experimental study in a rabbit cancellous bone defects. <i>Journal of Materials Science: Materials in Medicine</i> , 2010 , 21, 615-26	4.5	45
57	Self-hardening calcium deficient hydroxyapatite/gelatine foams for bone regeneration. <i>Journal of Materials Science: Materials in Medicine</i> , 2010 , 21, 863-9	4.5	37
56	Image processing and fractal box counting: user-assisted method for multi-scale porous scaffold characterization. <i>Journal of Materials Science: Materials in Medicine</i> , 2010 , 21, 3109-18	4.5	37
55	The biocompatibility of silver-containing Na ₂ O.CaO.2SiO ₂ glass prepared by sol-gel method: in vitro studies. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2010 , 92, 102-10	3.5	23
54	Evolution problems in spaces of probability measures. <i>Physica D: Nonlinear Phenomena</i> , 2010 , 239, 1446-1452	3.5	1

53	Fractography analysis and fatigue strength of carbon fiber/RTM6 laminates. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 3609-3614	5.3	10
52	Mineralization behavior with mesenchymal stromal cells in a biomimetic hyaluronic acid-based scaffold. <i>Biomaterials</i> , 2010 , 31, 3986-96	15.6	45
51	Almost everywhere well-posedness of continuity equations with measure initial data. <i>Comptes Rendus Mathématique</i> , 2010 , 348, 249-252	0.4	7
50	The influence of hydroxyapatite particles on in vitro degradation behavior of poly epsilon-caprolactone-based composite scaffolds. <i>Tissue Engineering - Part A</i> , 2009 , 15, 3655-68	3.9	41
49	In vivo preclinical efficacy of a PDLLA/PGA porous copolymer for dental application. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2009 , 88, 349-57	3.5	7
48	Rectifiability of Sets of Finite Perimeter in Carnot Groups: Existence of a Tangent Hyperplane. <i>Journal of Geometric Analysis</i> , 2009 , 19, 509-540	0.9	20
47	On flows associated to Sobolev vector fields in Wiener spaces: An approach à la DiPerna-Lions. <i>Journal of Functional Analysis</i> , 2009 , 256, 179-214	1.4	49
46	The influence of Ni(II) on surface antigen expression in murine macrophages. <i>Biomaterials</i> , 2009 , 30, 1492-501	32	
45	Syndiotactic Polystyrene Films with Sulfonated Amorphous Phase and Nanoporous Crystalline Phase. <i>Chemistry of Materials</i> , 2009 , 21, 3191-3196	9.6	31
44	Some New Well-Posedness Results for Continuity and Transport Equations, and Applications to the Chromatography System. <i>SIAM Journal on Mathematical Analysis</i> , 2009 , 41, 1890-1920	1.7	31
43	Recent Patents on Light Curing of Dental Materials. <i>Recent Patents on Biomedical Engineering</i> , 2009 , 2, 97-109		2
42	Soft Tissues Characteristics and Strategies for Their Replacement and Regeneration 2009 , 1-40		5
41	A novel poloxamers/hyaluronic acid in situ forming hydrogel for drug delivery: rheological, mucoadhesive and in vitro release properties. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2008 , 70, 199-206	5.7	188
40	Transport Equation and Cauchy Problem for Non-Smooth Vector Fields. <i>Lecture Notes in Mathematics</i> , 2008 , 1-41	0.4	40
39	Structural and mechanical properties of UV-photo-cross-linked poly(N-vinyl-2-pyrrolidone) hydrogels. <i>Biomacromolecules</i> , 2008 , 9, 231-40	6.9	58
38	Soybean-based biomaterials: preparation, properties and tissue regeneration potential. <i>Expert Review of Medical Devices</i> , 2008 , 5, 349-58	3.5	51
37	Tissue engineering for total meniscal substitution: animal study in sheep model. <i>Tissue Engineering - Part A</i> , 2008 , 14, 1067-80	3.9	98
36	Polylactic acid fibre-reinforced polycaprolactone scaffolds for bone tissue engineering. <i>Biomaterials</i> , 2008 , 29, 3662-3670	15.6	154

35	PCL microspheres based functional scaffolds by bottom-up approach with predefined microstructural properties and release profiles. <i>Biomaterials</i> , 2008 , 29, 4800-7	15.6	121
34	The role of hydroxyapatite as solid signal on performance of PCL porous scaffolds for bone tissue regeneration. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2008 , 86, 548-57	3.5	73
33	Novel superabsorbent cellulose-based hydrogels crosslinked with citric acid. <i>Journal of Applied Polymer Science</i> , 2008 , 110, 2453-2460	2.9	293
32	Calculus of Variations and Nonlinear Partial Differential Equations. <i>Lecture Notes in Mathematics</i> , 2008 ,	0.4	58
31	A new class of bioactive and biodegradable soybean-based bone fillers. <i>Biomacromolecules</i> , 2007 , 8, 2706-41	4.1	66
30	Induction of directional sprouting angiogenesis by matrix gradients. <i>Journal of Biomedical Materials Research - Part A</i> , 2007 , 80, 297-305	5.4	36
29	Implicit constitutive equations in the modeling of bimodular materials: An application to biomaterials. <i>Computers and Mathematics With Applications</i> , 2007 , 53, 209-218	2.7	6
28	Biomechanical effects of titanium implants with full arch bridge rehabilitation on a synthetic model of the human jaw. <i>Acta Biomaterialia</i> , 2007 , 3, 121-6	10.8	10
27	Structural and rheological characterization of hyaluronic acid-based scaffolds for adipose tissue engineering. <i>Biomaterials</i> , 2007 , 28, 4399-408	15.6	59
26	A multi-functional scaffold for tissue regeneration: the need to engineer a tissue analogue. <i>Biomaterials</i> , 2007 , 28, 5093-9	15.6	200
25	Dynamic-mechanical properties of a novel composite intervertebral disc prosthesis. <i>Journal of Materials Science: Materials in Medicine</i> , 2007 , 18, 2159-65	4.5	55
24	Effects of polymer amount and processing conditions on the in vitro behaviour of hybrid titanium dioxide/polycaprolactone composites. <i>Biomaterials</i> , 2007 , 28, 2801-9	15.6	41
23	Very weak notions of differentiability. <i>Proceedings of the Royal Society of Edinburgh Section A: Mathematics</i> , 2007 , 137, 447-455	1	12
22	Bioactive scaffolds for bone and ligament tissue. <i>Expert Review of Medical Devices</i> , 2007 , 4, 405-18	3.5	180
21	On the chain rule for the divergence of BV-like vector fields: applications, partial results, open problems. <i>Contemporary Mathematics</i> , 2007 , 31-67	1.6	13
20	Novel polysaccharides-based viscoelastic formulations for ophthalmic surgery: rheological characterization. <i>Biomaterials</i> , 2006 , 27, 5134-42	15.6	48
19	Effect of microencapsulated phase change materials on the thermo-mechanical properties of poly(methyl-methacrylate) based biomaterials. <i>Journal of Materials Science: Materials in Medicine</i> , 2006 , 17, 1219-26	4.5	24
18	Well-Posedness for a Class of Hyperbolic Systems of Conservation Laws in Several Space Dimensions. <i>Communications in Partial Differential Equations</i> , 2005 , 29, 1635-1651	1.6	18

17	Response of intestinal cells and macrophages to an orally administered cellulose-PEG based polymer as a potential treatment for intractable edemas. <i>Biomaterials</i> , 2005 , 26, 4101-10	15.6	39
16	A 3D analysis of mechanically stressed dentin-adhesive-composite interfaces using X-ray micro-CT. <i>Biomaterials</i> , 2005 , 26, 257-70	15.6	61
15	The effect of matrix composition of 3D constructs on embryonic stem cell differentiation. <i>Biomaterials</i> , 2005 , 26, 6194-207	15.6	210
14	Traces and fine properties of a $\mathbb{B}D$ class of vector fields and applications. <i>Annales De La Faculté Des Sciences De Toulouse</i> , 2005 , 14, 527-561	0.3	37
13	Preparation and physico-chemical characterisation of microporous polysaccharidic hydrogels. <i>Journal of Materials Science: Materials in Medicine</i> , 2004 , 15, 463-7	4.5	15
12	Mechanical and leakage behaviour of the dentin--adhesive interface. <i>Journal of Materials Science: Materials in Medicine</i> , 2004 , 15, 485-92	4.5	23
11	Transport equation and Cauchy problem for BV vector fields. <i>Inventiones Mathematicae</i> , 2004 , 158, 227-260	26.0	379
10	New macroporous calcium phosphate glass ceramic for guided bone regeneration. <i>Biomaterials</i> , 2004 , 25, 4233-41	15.6	110
9	Histomorphometric, ultrastructural and microhardness evaluation of the osseointegration of a nanostructured titanium oxide coating by metal-organic chemical vapour deposition: an in vivo study. <i>Biomaterials</i> , 2004 , 25, 5583-91	15.6	60
8	Viscoelastic properties of rabbit vocal folds after augmentation. <i>Otolaryngology - Head and Neck Surgery</i> , 2003 , 128, 401-6	5.5	65
7	Existence of solutions for a class of hyperbolic systems of conservation laws in several space dimensions. <i>International Mathematics Research Notices</i> , 2003 , 2003, 2205	0.8	16
6	Fine Properties of Sets of Finite Perimeter in Doubling Metric Measure Spaces. <i>Set-Valued and Variational Analysis</i> , 2002 , 10, 111-128		65
5	Some Fine Properties of Sets of Finite Perimeter in Ahlfors Regular Metric Measure Spaces. <i>Advances in Mathematics</i> , 2001 , 159, 51-67	1.3	76
4	Rectifiable sets in metric and Banach spaces. <i>Mathematische Annalen</i> , 2000 , 318, 527-555	1	137
3	Currents in metric spaces. <i>Acta Mathematica</i> , 2000 , 185, 1-80	2.7	136
2	A geometrical approach to monotone functions in (\mathbb{R}^n) . <i>Mathematische Zeitschrift</i> , 1999 , 230, 259-316	0.7	74
1	Poly(2-hydroxyethyl methacrylate)/Poly(caprolactone) Semi-Interpenetrating Polymer Networks. <i>Journal of Bioactive and Compatible Polymers</i> , 1988 , 3, 205-218	2	20