

Luigi Ambrosio

List of Publications by Year in descending order

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183
papers

9,983
citations

28274

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43889

91
g-index

187
all docs

187
docs citations

187
times ranked

10405
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | On the quadratic random matching problem in two-dimensional domains. Electronic Journal of Probability, 2022, 27, . | 1.0 | 6 |
| 2 | Duality properties of metric Sobolev spaces and capacity. Mathematics in Engineering, 2021, 3, 1-31. | 0.9 | 0 |
| 3 | Embedding of $RCD(K, N)$ spaces in L^2 via eigenfunctions. Journal of Functional Analysis, 2021, 280, 108968. | 1.4 | 10 |
| 4 | Spatially Inhomogeneous Evolutionary Games. Communications on Pure and Applied Mathematics, 2021, 74, 1353-1402. | 3.1 | 9 |
| 5 | Linear extension operators between spaces of Lipschitz maps and optimal transport. Journal Fur Die Reine Und Angewandte Mathematik, 2020, 2020, 1-21. | 0.9 | 13 |
| 6 | Rigidity of the 1-Bakry-Emery Inequality and Sets of Finite Perimeter in RCD Spaces. Geometric and Functional Analysis, 2019, 29, 949-1001. | 1.8 | 19 |
| 7 | A PDE approach to a 2-dimensional matching problem. Probability Theory and Related Fields, 2019, 173, 433-477. | 1.8 | 50 |
| 8 | Weighted Sobolev spaces on metric measure spaces. Journal Fur Die Reine Und Angewandte Mathematik, 2019, 2019, 39-65. | 0.9 | 11 |
| 9 | CALCULUS, HEAT FLOW AND CURVATURE-DIMENSION BOUNDS IN METRIC MEASURE SPACES. , 2019, , . | | 31 |
| 10 | Continuity of nonlinear eigenvalues in $CD(K, \infty)$ $CD(K, \infty)$ spaces with respect to measured Gromov-Hausdorff convergence. Calculus of Variations and Partial Differential Equations, 2018, 57, 1. | 1.7 | 5 |
| 11 | Partial regularity for mass-minimizing currents in Hilbert spaces. Journal Fur Die Reine Und Angewandte Mathematik, 2018, 2018, 99-144. | 0.9 | 5 |
| 12 | Local spectral convergence in $RCD(K, N)$ spaces. Nonlinear Analysis: Theory, Methods & Applications, 2018, 177, 1-23. | | 22 |
| 13 | Short-time behavior of the heat kernel and Weyl's law on $RCD(K, N)$ spaces. Annals of Global Analysis and Geometry, 2018, 53, 97-119. | 0.6 | 23 |
| 14 | Lusin-type approximation of Sobolev by Lipschitz functions, in Gaussian and $RCD(K, \infty)$ spaces. Advances in Mathematics, 2018, 339, 426-452. | 1.1 | 12 |
| 15 | Gaussian optimizers for entropic inequalities in quantum information. Journal of Mathematical Physics, 2018, 59, . | 1.1 | 20 |
| 16 | DC calculus. Mathematische Zeitschrift, 2018, 288, 1037-1080. | 0.9 | 13 |
| 17 | Weak and strong convergence of derivations and stability of flows with respect to MGH convergence. Journal of Functional Analysis, 2017, 272, 1182-1229. | 1.4 | 23 |
| 18 | Well posedness of ODEs and continuity equations with nonsmooth vector fields, and applications. Revista Matematica Complutense, 2017, 30, 427-450. | 1.2 | 12 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | New stability results for sequences of metric measure spaces with uniform Ricci bounds from below. , 2017, , 1-51. | | 25 |
| 20 | Lecture notes on the DiPernaâ€“Lions theory in abstract measure spaces. Annales De La FacultÃ© Des Sciences De Toulouse, 2017, 26, 729-766. | 0.3 | 9 |
| 21 | Ibuprofen-loaded poly(trimethylene carbonate-co-Î¼-caprolactone) electrospun fibres for nerve regeneration. Journal of Tissue Engineering and Regenerative Medicine, 2016, 10, E154-E166. | 2.7 | 48 |
| 22 | Behaviour of human mesenchymal stem cells on chemically synthesized HA-PCL scaffolds for hard tissue regeneration. Journal of Tissue Engineering and Regenerative Medicine, 2016, 10, E147-E154. | 2.7 | 36 |
| 23 | Electro-Active Polymers (EAPs): A Promising Route to Design Bio-Organic/Bioinspired Platforms with on Demand Functionalities. Polymers, 2016, 8, 185. | 4.5 | 59 |
| 24 | Scanning Small- and Wide-Angle X-ray Scattering Microscopy Selectively Probes HA Content in Gelatin/Hydroxyapatite Scaffolds for Osteochondral Defect Repair. ACS Applied Materials & Interfaces, 2016, 8, 8728-8736. | 8.0 | 18 |
| 25 | Optimal transport, Cheeger energies and contractivity of dynamic transport distances in extended spaces. Nonlinear Analysis: Theory, Methods & Applications, 2016, 137, 77-134. | 1.1 | 17 |
| 26 | Stimuli-responsive chitosan/poly (N-isopropylacrylamide) semi-interpenetrating polymer networks: effect of pH and temperature on their rheological and swelling properties. Journal of Materials Science: Materials in Medicine, 2016, 27, 109. | 3.6 | 17 |
| 27 | Borate cross-linked graphene oxideâ€“chitosan as robust and high gas barrier films. Nanoscale, 2016, 8, 10783-10791. | 5.6 | 62 |
| 28 | Fundamental Properties of Bioceramics and Biocomposites. , 2016, , 35-58. | | 7 |
| 29 | Electrofluidodynamics: exploring a new toolbox to design biomaterials for tissue regeneration and degeneration. Nanomedicine, 2016, 11, 1515-1518. | 3.3 | 26 |
| 30 | Celluloseâ€“based porous scaffold for bone tissue engineering applications: Assessment of h<sc>MSC</sc> proliferation and differentiation. Journal of Biomedical Materials Research - Part A, 2016, 104, 726-733. | 4.0 | 32 |
| 31 | Needle-like ion-doped hydroxyapatite crystals influence osteogenic properties of PCL composite scaffolds. Biomedical Materials (Bristol), 2016, 11, 015018. | 3.3 | 17 |
| 32 | 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. Materials Science and Engineering C, 2016, 63, 512-521. | 7.3 | 19 |
| 33 | Spontaneous arrangement of a tumor targeting hyaluronic acid shell on irinotecan loaded PLGA nanoparticles. Carbohydrate Polymers, 2016, 140, 400-407. | 10.2 | 37 |
| 34 | Bicomponent electrospun scaffolds to design extracellular matrix tissue analogs. Expert Review of Medical Devices, 2016, 13, 83-102. | 2.8 | 50 |
| 35 | Borate cross-linking chitosan/graphene oxide films: Toward the simultaneous enhancement of gases barrier and mechanical properties. AIP Conference Proceedings, 2015, , . | 0.4 | 2 |
| 36 | Electro fluido dynamic techniques to design instructive biomaterials for tissue engineering and drug delivery. AIP Conference Proceedings, 2015, , . | 0.4 | 2 |

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| 37 | Optimization of protein cross-linking in bicomponent electrospun scaffolds for therapeutic use. AIP Conference Proceedings, 2015, , . | 0.4 | 0 |
| 38 | Additive electrospaying: a route to process electrospun scaffolds for controlled molecular release. Polymers for Advanced Technologies, 2015, 26, 1359-1369. | 3.2 | 45 |
| 39 | Hyaluronic Acid Based Hydrogels for Regenerative Medicine Applications. BioMed Research International, 2015, 2015, 1-12. | 1.9 | 94 |
| 40 | Monolithic Polymeric Aerogels with VOCs Sorbent Nanoporous Crystalline and Water Sorbent Amorphous Phases. ACS Applied Materials & Interfaces, 2015, 7, 1318-1326. | 8.0 | 28 |
| 41 | Effects on growth and osteogenic differentiation of mesenchymal stem cells by the strontium-added sol-gel hydroxyapatite gel materials. Journal of Materials Science: Materials in Medicine, 2015, 26, 90. | 3.6 | 44 |
| 42 | Bioactivity and bone healing properties of biomimetic porous composite scaffold: <i>In vitro</i> and <i>in vivo</i> studies. Journal of Biomedical Materials Research - Part A, 2015, 103, 2932-2941. | 4.0 | 27 |
| 43 | The role of the surface on microglia function: implications for central nervous system tissue engineering. Journal of the Royal Society Interface, 2015, 12, 20141224. | 3.4 | 28 |
| 44 | Metal-Based Antibacterial Substrates for Biomedical Applications. Biomacromolecules, 2015, 16, 1873-1885. | 5.4 | 139 |
| 45 | Tensorization of Cheeger energies, the space $H^1(\Omega; \mathbb{R}^n)$ and the area formula for graphs. Advances in Mathematics, 2015, 281, 1145-1177. | 1.1 | 18 |
| 46 | Ionic liquids as dynamic templating agents for sol-gel silica systems: synergistic anion and cation effect on the silica structured growth. Journal of Sol-Gel Science and Technology, 2015, 76, 414-427. | 2.4 | 18 |
| 47 | Collagen-low molecular weight hyaluronic acid semi-interpenetrating network loaded with gelatin microspheres for cell and growth factor delivery for nucleus pulposus regeneration. Acta Biomaterialia, 2015, 20, 10-21. | 8.3 | 105 |
| 48 | Existence and Uniqueness of Maximal Regular Flows for Non-smooth Vector Fields. Archive for Rational Mechanics and Analysis, 2015, 218, 1043-1081. | 2.4 | 22 |
| 49 | Bakry's curvature-dimension condition and Riemannian Ricci curvature bounds. Annals of Probability, 2015, 43, . | 1.8 | 147 |
| 50 | Riemannian Ricci curvature lower bounds in metric measure spaces with ∞ -finite measure. Transactions of the American Mathematical Society, 2015, 367, 4661-4701. | 0.9 | 125 |
| 51 | Polymer-based platforms by electric field-assisted techniques for tissue engineering and cancer therapy. Expert Review of Medical Devices, 2015, 12, 113-129. | 2.8 | 53 |
| 52 | Gas-Barrier Hybrid Coatings by the Assembly of Novel Poly(vinyl alcohol) and Reduced Graphene Oxide Layers through Cross-Linking with Zirconium Adducts. ACS Applied Materials & Interfaces, 2015, 7, 22678-22685. | 8.0 | 33 |
| 53 | 3D fibre deposition and stereolithography techniques for the design of multifunctional nanocomposite magnetic scaffolds. Journal of Materials Science: Materials in Medicine, 2015, 26, 250. | 3.6 | 65 |
| 54 | Towards the Design of 3D Fiber-Deposited Poly(ϵ -caprolactone)/Iron-Doped Hydroxyapatite Nanocomposite Magnetic Scaffolds for Bone Regeneration. Journal of Biomedical Nanotechnology, 2015, 11, 1236-1246. | 1.1 | 125 |

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| 55 | Hydrogels for central nervous system therapeutic strategies. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2015, 229, 905-916. | 1.8 | 14 |
| 56 | Improving surface and transport properties of macroporous hydrogels for bone regeneration. Journal of Biomedical Materials Research - Part A, 2015, 103, 1095-1105. | 4.0 | 11 |
| 57 | Galactose grafting on poly(μ -caprolactone) substrates for tissue engineering: a preliminary study. Carbohydrate Research, 2015, 405, 39-46. | 2.3 | 24 |
| 58 | Continuity equations and ODE flows with non-smooth velocity. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 2014, 144, 1191-1244. | 1.2 | 78 |
| 59 | Preparation and characterization of cellulose-based foams via microwave curing. Interface Focus, 2014, 4, 20130053. | 3.0 | 41 |
| 60 | 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. Journal of Biomechanics, 2014, 47, 3825-3829. | 2.1 | 18 |
| 61 | MgCHA particles dispersion in porous PCL scaffolds: <i>in vitro</i> mineralization and <i>in vivo</i> bone formation. Journal of Tissue Engineering and Regenerative Medicine, 2014, 8, 291-303. | 2.7 | 30 |
| 62 | Calculus and heat flow in metric measure spaces and applications to spaces with Ricci bounds from below. Inventiones Mathematicae, 2014, 195, 289-391. | 2.5 | 257 |
| 63 | Design of electrosprayed non-spherical poly (L-lactide-co-glicolide) microdevices for sustained drug delivery. Journal of Materials Science: Materials in Medicine, 2014, 25, 383-390. | 3.6 | 23 |
| 64 | Metric measure spaces with Riemannian Ricci curvature bounded from below. Duke Mathematical Journal, 2014, 163, . | 1.5 | 286 |
| 65 | On a class of first order Hamilton-Jacobi equations in metric spaces. Journal of Differential Equations, 2014, 256, 2194-2245. | 2.2 | 41 |
| 66 | The role of reduced graphene oxide on chemical, mechanical and barrier properties of natural rubber composites. Composites Science and Technology, 2014, 102, 74-81. | 7.8 | 113 |
| 67 | A comparison of the performance of mono- and bi-component electrospun conduits in a rat sciatic model. Biomaterials, 2014, 35, 8970-8982. | 11.4 | 64 |
| 68 | Slopes of Kantorovich potentials and existence of optimal transport maps in metric measure spaces. Annali Di Matematica Pura Ed Applicata, 2014, 193, 71-87. | 1.0 | 3 |
| 69 | Optimization of fully aligned bioactive electrospun fibers for <i>in vitro</i> nerve guidance. Journal of Materials Science: Materials in Medicine, 2014, 25, 2323-2332. | 3.6 | 54 |
| 70 | Large defect-tailored composite scaffolds for <i>in vivo</i> bone regeneration. Journal of Biomaterials Applications, 2014, 29, 715-727. | 2.4 | 11 |
| 71 | Tailoring Assembly of Reduced Graphene Oxide Nanosheets to Control Gas Barrier Properties of Natural Rubber Nanocomposites. ACS Applied Materials & Interfaces, 2014, 6, 2230-2234. | 8.0 | 103 |
| 72 | Equivalent definitions of BV space and of total variation on metric measure spaces. Journal of Functional Analysis, 2014, 266, 4150-4188. | 1.4 | 83 |

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| 73 | 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, 140116074603009. | 3.1 | 20 |
| 74 | Well-posedness of Lagrangian flows and continuity equations in metric measure spaces. <i>Analysis and PDE</i> , 2014, 7, 1179-1234. | 1.4 | 54 |
| 75 | A global existence result for the semigeostrophic equations in three dimensional convex domains. <i>Discrete and Continuous Dynamical Systems</i> , 2014, 34, 1251-1268. | 0.9 | 22 |
| 76 | Heat Flow and Calculus on Metric Measure Spaces with Ricci Curvature Bounded Below – The Compact Case. <i>Springer INdAM Series</i> , 2013, , 63-115. | 0.5 | 12 |
| 77 | Human skin-derived keratinocytes and fibroblasts co-cultured on 3D poly(μ -caprolactone) scaffold support <i>in vitro</i> HSC differentiation into T-lineage committed cells. <i>International Immunology</i> , 2013, 25, 703-714. | 4.0 | 15 |
| 78 | Glucosamine grafting on poly(μ -caprolactone): a novel glycosylated polyester as a substrate for tissue engineering. <i>RSC Advances</i> , 2013, 3, 6286. | 3.6 | 25 |
| 79 | Conductive PANi/PEGDA Macroporous Hydrogels For Nerve Regeneration. <i>Advanced Healthcare Materials</i> , 2013, 2, 218-227. | 7.6 | 182 |
| 80 | 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. | 1.2 | 60 |
| 81 | Thermoset composite hydrogels for bone/intervertebral disc interface. <i>Materials Letters</i> , 2013, 110, 249-252. | 2.6 | 7 |
| 82 | Rheological and mechanical properties of acellular and cell-laden methacrylated gellan gum hydrogels. <i>Journal of Biomedical Materials Research - Part A</i> , 2013, 101, 3438-3446. | 4.0 | 84 |
| 83 | 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. | 1.3 | 5 |
| 84 | Micro/Nanotexturing and Bioactivation Strategies to Design Composite Scaffolds and ECM-Like Analogues. <i>Macromolecular Symposia</i> , 2013, 331-332, 65-70. | 0.7 | 7 |
| 85 | Development and Analysis of Semi-Interpenetrating Polymer Networks for Brain Injection in Neurodegenerative Disorders. <i>International Journal of Artificial Organs</i> , 2013, 36, 762-774. | 1.4 | 10 |
| 86 | Hydrogel-Based Nanocomposites and Mesenchymal Stem Cells: A Promising Synergistic Strategy for Neurodegenerative Disorders Therapy. <i>Scientific World Journal, The</i> , 2013, 2013, 1-9. | 2.1 | 25 |
| 87 | Design of Porous Three-Dimensional PDLA/nano-hap Composite Scaffolds Using Stereolithography. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2012, 10, 249-258. | 1.6 | 46 |
| 88 | Biodegradable Microparticles and Nanoparticles by Electrospinning Techniques. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2012, 10, 191-196. | 1.6 | 25 |
| 89 | Osteogenic differentiation and mineralization in fibre-reinforced tubular scaffolds: theoretical study and experimental evidences. <i>Journal of the Royal Society Interface</i> , 2012, 9, 2201-2212. | 3.4 | 21 |
| 90 | Synthesis and Characterization of Soybean-Based Hydrogels with an Intrinsic Activity on Cell Differentiation. <i>Tissue Engineering - Part A</i> , 2012, 18, 1932-1939. | 3.1 | 20 |

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| 91 | Modeling of Phase Separation Mechanism in Polycaprolactone/Dioxane Binary Systems. Journal of Applied Biomaterials and Functional Materials, 2012, 10, 237-242. | 1.6 | 2 |
| 92 | Proliferation and Osteoblastic Differentiation of hMSCs on Cellulose-Based Hydrogels. Journal of Applied Biomaterials and Functional Materials, 2012, 10, 302-307. | 1.6 | 39 |
| 93 | Hydrogel-Based Platforms for the Regeneration of Osteochondral Tissue and Intervertebral Disc. Polymers, 2012, 4, 1590-1612. | 4.5 | 57 |
| 94 | Design of Bioactive Electrospun Scaffolds for Bone Tissue Engineering. Journal of Applied Biomaterials and Functional Materials, 2012, 10, 223-228. | 1.6 | 15 |
| 95 | Rheological Characterization of Hyaluronic Acid Derivatives as Injectable Materials Toward Nucleus Pulposus Regeneration. Journal of Biomaterials Applications, 2012, 26, 745-759. | 2.4 | 64 |
| 96 | Existence of Eulerian Solutions to the Semigeostrophic Equations in Physical Space: The 2-Dimensional Periodic Case. Communications in Partial Differential Equations, 2012, 37, 2209-2227. | 2.2 | 34 |
| 97 | Tissue Engineering for Total Meniscal Substitution: Animal Study in Sheep Model—Results at 12 Months. Tissue Engineering - Part A, 2012, 18, 1573-1582. | 3.1 | 99 |
| 98 | Additive manufacturing of wet-spun polymeric scaffolds for bone tissue engineering. Biomedical Microdevices, 2012, 14, 1115-1127. | 2.8 | 118 |
| 99 | Binary system thermodynamics to control pore architecture of PCL scaffold via temperature-driven phase separation process. Journal of Biomaterials Applications, 2012, 27, 241-254. | 2.4 | 21 |
| 100 | Calorimetric and Thermomechanical Properties of Titanium-Based Orthodontic Wires: DSC—DMA Relationship to Predict the Elastic Modulus. Journal of Biomaterials Applications, 2012, 26, 829-844. | 2.4 | 19 |
| 101 | Effect of Surface Fluorination of TiO ₂ Particles on Photocatalytic Activity of a Hybrid Multilayer Coating Obtained by Sol-Gel Method. ACS Applied Materials & Interfaces, 2012, 4, 150-157. | 8.0 | 19 |
| 102 | Advanced functional polymers for medicine: Multifunctional biomaterials. Acta Biomaterialia, 2012, 8, 4199. | 8.3 | 7 |
| 103 | Design of injectable organic— inorganic hybrid for bone tissue repair. Journal of Biomedical Materials Research - Part A, 2012, 100A, 2063-2070. | 4.0 | 28 |
| 104 | <i>In vitro</i> mineralization and bone osteogenesis in poly(ε-caprolactone)/gelatin nanofibers. Journal of Biomedical Materials Research - Part A, 2012, 100A, 3008-3019. | 4.0 | 55 |
| 105 | In silico evaluation of a new composite disc substitute with a L3—L5 lumbar spine finite element model. European Spine Journal, 2012, 21, 675-687. | 2.2 | 21 |
| 106 | In vivo lamellar bone formation in fibre coated MgCHA—PCL-composite scaffolds. Journal of Materials Science: Materials in Medicine, 2012, 23, 117-128. | 3.6 | 17 |
| 107 | Design of Functional Polymer and Composite Scaffolds for the Regeneration of Bone, Menisci, Osteochondral and Peripheral Nervous Tissues. Advanced Materials Research, 2011, 324, 8-13. | 0.3 | 3 |
| 108 | Injectable Thermally Responsive Mucoadhesive Gel for Sustained Protein Delivery. Biomacromolecules, 2011, 12, 28-33. | 5.4 | 71 |

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| 109 | Layer-by-Layer Self-Assembly of Chitosan and Poly(β -glutamic acid) into Polyelectrolyte Complexes. <i>Biomacromolecules</i> , 2011, 12, 4183-4195. | 5.4 | 107 |
| 110 | A Multi-component Fiber-reinforced PHEMA-based Hydrogel/HAPEX TM Device for Customized Intervertebral Disc Prosthesis. <i>Journal of Biomaterials Applications</i> , 2011, 25, 795-810. | 2.4 | 55 |
| 111 | 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. | 4.6 | 46 |
| 112 | Nanocomposites for Neurodegenerative Diseases: Hydrogel-Nanoparticle Combinations for a Challenging Drug Delivery. <i>International Journal of Artificial Organs</i> , 2011, 34, 1115-1127. | 1.4 | 52 |
| 113 | Effect of N-acetyl cysteine on orthodontic primers cytotoxicity. <i>Dental Materials</i> , 2011, 27, 180-186. | 3.5 | 5 |
| 114 | Tuning Size Scale and Crystallinity of PCL Electrospun Fibres via Solvent Permittivity to Address hMSC Response. <i>Macromolecular Bioscience</i> , 2011, 11, 1694-1705. | 4.1 | 69 |
| 115 | Advanced Functional Polymers for Medicine. <i>Macromolecular Bioscience</i> , 2011, 11, 1621-1624. | 4.1 | 8 |
| 116 | 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. | 3.1 | 28 |
| 117 | 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, 1965-1976. | 3.3 | 47 |
| 118 | Semicrystalline proton-conductive membranes with sulfonated amorphous phases. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 8038-8044. | 7.1 | 11 |
| 119 | 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, 34-39. | 0.4 | 5 |
| 120 | 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, 151-163. | 0.4 | 24 |
| 121 | A degradable soybean-based biomaterial used effectively as a bone filler <i>in vivo</i> in a rabbit. <i>Biomedical Materials (Bristol)</i> , 2010, 5, 015008. | 3.3 | 40 |
| 122 | Hybrid composite scaffolds prepared by sol-gel method for bone regeneration. <i>Composites Science and Technology</i> , 2010, 70, 1861-1868. | 7.8 | 70 |
| 123 | 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, 615-626. | 3.6 | 48 |
| 124 | Self-hardening calcium deficient hydroxyapatite/gelatine foams for bone regeneration. <i>Journal of Materials Science: Materials in Medicine</i> , 2010, 21, 863-869. | 3.6 | 45 |
| 125 | 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, 3109-3118. | 3.6 | 39 |
| 126 | The biocompatibility of silver-containing Na ₂ O-CaO-2SiO ₂ glass prepared by sol-gel method: <i>In vitro</i> studies. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2010, 92B, 102-110. | 3.4 | 24 |

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| 127 | Evolution problems in spaces of probability measures. <i>Physica D: Nonlinear Phenomena</i> , 2010, 239, 1446-1452. | 2.8 | 1 |
| 128 | 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. | 5.6 | 12 |
| 129 | Mineralization behavior with mesenchymal stromal cells in a biomimetic hyaluronic acid-based scaffold. <i>Biomaterials</i> , 2010, 31, 3986-3996. | 11.4 | 50 |
| 130 | Almost everywhere well-posedness of continuity equations with measure initial data. <i>Comptes Rendus Mathematique</i> , 2010, 348, 249-252. | 0.3 | 9 |
| 131 | Poly(ϵ -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. | 0.4 | 13 |
| 132 | Influence of Gelatin Cues in PCL Electrospun Membranes on Nerve Outgrowth. <i>Biomacromolecules</i> , 2010, 11, 2238-2246. | 5.4 | 134 |
| 133 | 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, 1173-1190. | 3.5 | 53 |
| 134 | Passage from Quantum to Classical Molecular Dynamics in the Presence of Coulomb Interactions. <i>Communications in Partial Differential Equations</i> , 2010, 35, 1490-1515. | 2.2 | 12 |
| 135 | The Influence of Hydroxyapatite Particles on In Vitro Degradation Behavior of Poly ϵ -Caprolactone-Based Composite Scaffolds. <i>Tissue Engineering - Part A</i> , 2009, 15, 3655-3668. | 3.1 | 45 |
| 136 | <i>In vivo</i> preclinical efficacy of a PDLLA/PGA porous copolymer for dental application. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2009, 88B, 349-357. | 3.4 | 12 |
| 137 | Rectifiability of Sets of Finite Perimeter in Carnot Groups: Existence of a Tangent Hyperplane. <i>Journal of Geometric Analysis</i> , 2009, 19, 509-540. | 1.0 | 29 |
| 138 | On flows associated to Sobolev vector fields in Wiener spaces: An approach \grave{a} la DiPerna-Lions. <i>Journal of Functional Analysis</i> , 2009, 256, 179-214. | 1.4 | 56 |
| 139 | The influence of Ni(II) on surface antigen expression in murine macrophages. <i>Biomaterials</i> , 2009, 30, 1492-1501. | 11.4 | 34 |
| 140 | Syndiotactic Polystyrene Films with Sulfonated Amorphous Phase and Nanoporous Crystalline Phase. <i>Chemistry of Materials</i> , 2009, 21, 3191-3196. | 6.7 | 38 |
| 141 | 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. | 1.9 | 35 |
| 142 | Soft Tissues Characteristics and Strategies for Their Replacement and Regeneration. , 2009, , 1-40. | | 6 |
| 143 | Recent Patents on Light Curing of Dental Materials. <i>Recent Patents on Biomedical Engineering</i> , 2009, 2, 97-109. | 0.5 | 3 |
| 144 | Polylactic acid fibre-reinforced polycaprolactone scaffolds for bone tissue engineering. <i>Biomaterials</i> , 2008, 29, 3662-3670. | 11.4 | 184 |

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| 145 | PCL microspheres based functional scaffolds by bottom-up approach with predefined microstructural properties and release profiles. <i>Biomaterials</i> , 2008, 29, 4800-4807. | 11.4 | 131 |
| 146 | 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, 86B, 548-557. | 3.4 | 82 |
| 147 | Novel superabsorbent cellulose-based hydrogels crosslinked with citric acid. <i>Journal of Applied Polymer Science</i> , 2008, 110, 2453-2460. | 2.6 | 386 |
| 148 | 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. | 4.3 | 228 |
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