Eduardo Saiz

List of Publications by Year in descending order

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FUINDO SAIZ

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Fracture toughness of bone at the microscale. Acta Biomaterialia, 2021, 121, 475-483. | 4.1 | 11 |
| 2 | Conformable green bodies: Plastic forming of robocasted advanced ceramics. Journal of the European Ceramic Society, 2020, 40, 552-557. | 2.8 | 12 |
| 3 | Super-tough MXene-functionalized graphene sheets. Nature Communications, 2020, 11, 2077. | 5.8 | 289 |
| 4 | Bioinspired Nacreâ€Like Alumina with a Metallic Nickel Compliant Phase Fabricated by Sparkâ€Plasma Sintering. Small, 2019, 15, 1900573. | 5.2 | 28 |
| 5 | High temperature strength of an ultra high temperature ceramic produced by additive manufacturing. Ceramics International, 2019, 45, 18210-18214. | 2.3 | 26 |
| 6 | 3-D printing of chitosan-calcium phosphate inks: rheology, interactions and characterization. Journal of Materials Science: Materials in Medicine, 2019, 30, 6. | 1.7 | 40 |
| 7 | Strong and tough metal/ceramic micro-laminates. Acta Materialia, 2018, 144, 202-215. | 3.8 | 73 |
| 8 | Nacre-like ceramic refractories for high temperature applications. Journal of the European Ceramic Society, 2018, 38, 2186-2193. | 2.8 | 29 |
| 9 | SiC porous structures obtained with innovative shaping technologies. Journal of the European Ceramic Society, 2018, 38, 823-835. | 2.8 | 34 |
| 10 | Ultratough Bioinspired Graphene Fiber <i>via</i> Sequential Toughening of Hydrogen and Ionic Bonding. ACS Nano, 2018, 12, 12638-12645. | 7.3 | 53 |
| 11 | Bioinspired Supertough Graphene Fiber through Sequential Interfacial Interactions. ACS Nano, 2018, 12, 8901-8908. | 7.3 | 67 |
| 12 | Using graphene networks to build bioinspired self-monitoring ceramics. Nature Communications, 2017, 8, 14425. | 5.8 | 99 |
| 13 | Mechanical and biological evaluation of 3D printed 10CeTZP-Al 2 O 3 structures. Journal of the European Ceramic Society, 2017, 37, 3151-3158. | 2.8 | 34 |
| 14 | 3D Printing Bioinspired Ceramic Composites. Scientific Reports, 2017, 7, 13759. | 1.6 | 141 |
| 15 | Multimaterial 3D Printing of Graphene-Based Electrodes for Electrochemical Energy Storage Using Thermoresponsive Inks. ACS Applied Materials & Interfaces, 2017, 9, 37136-37145. | 4.0 | 148 |
| 16 | Graphene Oxide: An All-in-One Processing Additive for 3D Printing. ACS Applied Materials & Interfaces, 2017, 9, 32977-32989. | 4.0 | 74 |
| 17 | Complex ceramic architectures by directed assembly of â€~responsive' particles. Journal of the European Ceramic Society, 2017, 37, 199-211. | 2.8 | 9 |
| 18 | Osseous differentiation on freeze casted 10CeTZP-Al2O3 structures. Journal of the European Ceramic Society, 2017, 37, 5009-5016. | 2.8 | 5 |

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|----|--|------|-----------|
| 19 | Light and Strong SiC Networks. Advanced Functional Materials, 2016, 26, 1636-1645. | 7.8 | 109 |
| 20 | Autonomous self-healing structural composites with bio-inspired design. Scientific Reports, 2016, 6, 25059. | 1.6 | 50 |
| 21 | Robocasting of structural ceramic parts with hydrogel inks. Journal of the European Ceramic Society, 2016, 36, 2525-2533. | 2.8 | 268 |
| 22 | Understanding Mechanical Response of Elastomeric Graphene Networks. Scientific Reports, 2015, 5, 13712. | 1.6 | 64 |
| 23 | Selfâ€Healing Grapheneâ€Based Composites with Sensing Capabilities. Advanced Materials, 2015, 27, 4788-4794. | 11.1 | 136 |
| 24 | Printing in Three Dimensions with Graphene. Advanced Materials, 2015, 27, 1688-1693. | 11.1 | 266 |
| 25 | Highly flexible silica/chitosan hybrid scaffolds with oriented pores for tissue regeneration. Journal of Materials Chemistry B, 2015, 3, 7560-7576. | 2.9 | 78 |
| 26 | Bioinspired structural materials. Nature Materials, 2015, 14, 23-36. | 13.3 | 3,284 |
| 27 | Mesoscale assembly of chemically modified graphene into complex cellular networks. Nature Communications, 2014, 5, 4328. | 5.8 | 250 |
| 28 | A novel approach for the fabrication of carbon nanofibre/ceramic porous structures. Journal of the European Ceramic Society, 2013, 33, 2365-2374. | 2.8 | 15 |
| 29 | Toward Strong and Tough Glass and Ceramic Scaffolds for Bone Repair. Advanced Functional Materials, 2013, 23, 5461-5476. | 7.8 | 183 |
| 30 | Designing Smart Particles for the Assembly of Complex Macroscopic Structures. Angewandte Chemie - International Edition, 2013, 52, 7805-7808. | 7.2 | 26 |
| 31 | On the structural, mechanical, and biodegradation properties of HA/β-TCP robocast scaffolds. , 2013, 101, 1233-1242. | | 89 |
| 32 | Perspectives on the role of nanotechnology in bone tissue engineering. Dental Materials, 2013, 29, 103-115. | 1.6 | 123 |
| 33 | A two-scale Weibull approach to the failure of porous ceramic structures made by robocasting: Possibilities and limits. Journal of the European Ceramic Society, 2013, 33, 679-688. | 2.8 | 29 |
| 34 | Modeling of the self-limited growth in catalytic chemical vapor deposition of graphene. New Journal of Physics, 2013, 15, 053012. | 1.2 | 40 |
| 35 | Nanotechnology for Dental Implants. International Journal of Oral and Maxillofacial Implants, 2013, 28, e535-e546. | 0.6 | 33 |
| 36 | Role of Molecular Chemistry of Degradable pHEMA Hydrogels in Three-Dimensional Biomimetic Mineralization. Chemistry of Materials, 2012, 24, 1331-1337. | 3.2 | 26 |

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|----|--|-----|-----------|
| 37 | Activation Energy Paths for Graphene Nucleation and Growth on Cu. ACS Nano, 2012, 6, 3614-3623. | 7.3 | 370 |
| 38 | Sol–gel method to fabricate CaP scaffolds by robocasting for tissue engineering. Journal of Materials Science: Materials in Medicine, 2012, 23, 921-930. | 1.7 | 33 |
| 39 | Lamellar Spacing in Cuboid Hydroxyapatite Scaffolds Regulates Bone Formation by Human Bone Marrow Stromal Cells. Tissue Engineering - Part A, 2011, 17, 1615-1623. | 1.6 | 20 |
| 40 | Bioactive glass scaffolds for bone tissue engineering: state of the art and future perspectives. Materials Science and Engineering C, 2011, 31, 1245-1256. | 3.8 | 546 |
| 41 | Direct ink writing of highly porous and strong glass scaffolds for load-bearing bone defects repair and regeneration. Acta Biomaterialia, 2011, 7, 3547-3554. | 4.1 | 302 |
| 42 | Bioinspired Strong and Highly Porous Glass Scaffolds. Advanced Functional Materials, 2011, 21, 1058-1063. | 7.8 | 215 |
| 43 | Nanotechnology approaches to improve dental implants. International Journal of Oral and Maxillofacial Implants, 2011, 26 Suppl, 25-44; discussion 45-9. | 0.6 | 15 |
| 44 | A novel biomimetic approach to the design of high-performance ceramic–metal composites. Journal of the Royal Society Interface, 2010, 7, 741-753. | 1.5 | 247 |
| 45 | Elastomeric highâ€mineral content hydrogelâ€hydroxyapatite composites for orthopedic applications. Journal of Biomedical Materials Research - Part A, 2009, 89A, 1098-1107. | 2.1 | 55 |
| 46 | Architectural Control of Freeze ast Ceramics Through Additives and Templating. Journal of the American Ceramic Society, 2009, 92, 1534-1539. | 1.9 | 240 |
| 47 | Three-Dimensional Biomimetic Mineralization of Dense Hydrogel Templates. Journal of the American Chemical Society, 2009, 131, 9937-9939. | 6.6 | 45 |
| 48 | Mechanical properties of calcium phosphate scaffolds fabricated by robocasting. Journal of Biomedical Materials Research - Part A, 2008, 85A, 218-227. | 2.1 | 246 |
| 49 | Artificial Bone and Teeth through Controlled Ice Growth in Colloidal Suspensions. AIP Conference Proceedings, 2007, , . | 0.3 | 2 |
| 50 | Fracture modes under uniaxial compression in hydroxyapatite scaffolds fabricated by robocasting. Journal of Biomedical Materials Research - Part A, 2007, 83A, 646-655. | 2.1 | 79 |
| 51 | Ice-templated porous alumina structures. Acta Materialia, 2007, 55, 1965-1974. | 3.8 | 647 |
| 52 | Freezing as a Path to Build Complex Composites. Science, 2006, 311, 515-518. | 6.0 | 1,676 |
| 53 | Sintering and robocasting of β-tricalcium phosphate scaffolds for orthopaedic applications. Acta Biomaterialia, 2006, 2, 457-466. | 4.1 | 291 |
| 54 | Freeze casting of hydroxyapatite scaffolds for bone tissue engineering. Biomaterials, 2006, 27, 5480-5489. | 5.7 | 779 |

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| 55 | Strong Biomimetic Hydroxyapatite Scaffolds. Advances in Science and Technology, 2006, 49, 148-152. | 0.2 | 19 |
| 56 | A New Approach to Mineralization of Biocompatible Hydrogel Scaffolds:Â An Efficient Process toward 3-Dimensional Bonelike Composites. Journal of the American Chemical Society, 2003, 125, 1236-1243. | 6.6 | 245 |
| 57 | Kinetics of Metalâ€Ceramic Composite Formation by Reactive Penetration of Silicates with Molten Aluminum. Journal of the American Ceramic Society, 1998, 81, 2381-2393. | 1.9 | 50 |
| 58 | Using Ice to Mimic Nacre: From Structural Applications to Artificial Bone. , 0, , 174-192. | | 1 |