

Alessandro Ar Russo

List of Publications by Year in descending order

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Version: 2024-02-01

74
papers

2,749
citations

201674

27
h-index

175258

52
g-index

77
all docs

77
docs citations

77
times ranked

3401
citing authors

#	ARTICLE	IF	CITATIONS
1	A novel route in bone tissue engineering: Magnetic biomimetic scaffolds. <i>Acta Biomaterialia</i> , 2010, 6, 786-796.	8.3	329
2	Platelet-rich plasma: New clinical application. <i>Injury</i> , 2009, 40, 598-603.	1.7	289
3	Characterization of multi-principal-element (TiZrNbHfTa)N and (TiZrNbHfTa)C coatings for biomedical applications. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012, 10, 197-205.	3.1	153
4	Towards the Design of 3D Fiber-Deposited Poly(-caprolactone)/Iron-Doped Hydroxyapatite Nanocomposite Magnetic Scaffolds for Bone Regeneration. <i>Journal of Biomedical Nanotechnology</i> , 2015, 11, 1236-1246.	1.1	125
5	Osteochondral tissue engineering approaches for articular cartilage and subchondral bone regeneration. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2012, 20, 1182-1191.	4.2	120
6	Multiple osteochondral arthroscopic grafting (mosaicplasty) for cartilage defects of the knee: Prospective study results at 2-year follow-up. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2005, 21, 462-470.	2.7	117
7	Magnetic Hydroxyapatite Bone Substitutes to Enhance Tissue Regeneration: Evaluation In Vitro Using Osteoblast-Like Cells and In Vivo in a Bone Defect. <i>PLoS ONE</i> , 2012, 7, e38710.	2.5	96
8	ST/G ACL reconstruction: double strand plus extra-articular sling vs double bundle, randomized study at 3-year follow-up. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2008, 18, 573-581.	2.9	92
9	Ion-substituted calcium phosphate coatings deposited by plasma-assisted techniques: A review. <i>Materials Science and Engineering C</i> , 2017, 74, 219-229.	7.3	84
10	Hybrid composites made of multiwalled carbon nanotubes functionalized with Fe ₃ O ₄ nanoparticles for tissue engineering applications. <i>Nanotechnology</i> , 2012, 23, 465102.	2.6	74
11	Neoligamentization process of BTPB used for ACL graft: Histological evaluation from 6 months to 10 years. <i>Knee</i> , 2007, 14, 87-93.	1.6	64
12	Guesstimation of posterior malleolar fractures on lateral plain radiographs. <i>Injury</i> , 2015, 46, 2024-2029.	1.7	61
13	3D Patterning of cells in Magnetic Scaffolds for Tissue Engineering. <i>Scientific Reports</i> , 2020, 10, 2289.	3.3	60
14	Modifying bone scaffold architecture in vivo with permanent magnets to facilitate fixation of magnetic scaffolds. <i>Bone</i> , 2013, 56, 432-439.	2.9	58
15	Treatment of chronic patellar dislocation with a modified Elmslie-Trillat procedure. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2004, 124, 250-257.	2.4	54
16	Intraoperative evaluation of total knee replacement: kinematic assessment with a navigation system. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2009, 17, 369-373.	4.2	53
17	Electron microscopy of the remodelling process in hamstring tendon used as ACL graft. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2010, 18, 1052-1058.	4.2	47
18	Bone regeneration in a rabbit critical femoral defect by means of magnetic hydroxyapatite macroporous scaffolds. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2018, 106, 546-554.	3.4	46

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19	Innovative magnetic scaffolds for orthopedic tissue engineering. Journal of Biomedical Materials Research - Part A, 2012, 100A, 2278-2286.	4.0	42
20	Risk Factors for Shoulder Stiffness: Current Concepts. Joints, 2017, 05, 217-223.	1.5	41
21	Structural and ultrastructural analyses of bone regeneration in rabbit cranial osteotomy: Piezosurgery versus traditional osteotomes. Journal of Cranio-Maxillo-Facial Surgery, 2018, 46, 107-118.	1.7	41
22	Minimally invasive unicompartmental knee replacement: retrospective clinical and radiographic evaluation of 83 patients. Knee Surgery, Sports Traumatology, Arthroscopy, 2010, 18, 710-717.	4.2	40
23	The prospective opportunities offered by magnetic scaffolds for bone tissue engineering: a review. Joints, 2016, 04, 228-235.	1.5	35
24	Tribological characterization of zirconia coatings deposited on Ti6Al4V components for orthopedic applications. Materials Science and Engineering C, 2016, 62, 643-655.	7.3	35
25	Double-bundle ACL reconstruction: influence of femoral tunnel orientation in knee laxity analysed with a navigation system – an in-vitro biomechanical study. BMC Musculoskeletal Disorders, 2008, 9, 25.	1.9	34
26	Multilayered Magnetic Gelatin Membrane Scaffolds. ACS Applied Materials & Interfaces, 2015, 7, 23098-23109.	8.0	34
27	Magnetic forces and magnetized biomaterials provide dynamic flux information during bone regeneration. Journal of Materials Science: Materials in Medicine, 2016, 27, 51.	3.6	31
28	A comparative study of the growth dynamics of zirconia thin films deposited by ionized jet deposition onto different substrates. Surface and Coatings Technology, 2018, 337, 306-312.	4.8	27
29	Tough and adhesive nanostructured calcium phosphate thin films deposited by the pulsed plasma deposition method. RSC Advances, 2015, 5, 78561-78571.	3.6	26
30	Magnetic hydroxyapatite coatings as a new tool in medicine: A scanning probe investigation. Materials Science and Engineering C, 2016, 62, 444-449.	7.3	26
31	Pulsed Electron Deposition of nanostructured bioactive glass coatings for biomedical applications. Ceramics International, 2017, 43, 15862-15867.	4.8	26
32	Surface morphology, tribological properties and in vitro biocompatibility of nanostructured zirconia thin films. Journal of Materials Science: Materials in Medicine, 2016, 27, 96.	3.6	24
33	The distal tibiofibular syndesmosis during passive foot flexion. RSA-based study on intact, ligament injured and screw fixed cadaver specimens. Archives of Orthopaedic and Trauma Surgery, 2006, 126, 304-308.	2.4	23
34	Precision assessment of model-based RSA for a total knee prosthesis in a biplanar set-up. Knee, 2008, 15, 396-402.	1.6	23
35	Pulsed plasma deposition of zirconia thin films on UHMWPE: proof of concept of a novel approach for joint prosthetic implants. Journal of Materials Chemistry B, 2013, 1, 310-318.	5.8	22
36	A new approach to scaffold fixation by magnetic forces: Application to large osteochondral defects. Medical Engineering and Physics, 2012, 34, 1287-1293.	1.7	21

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37	Nanostructured Ag thin films deposited by pulsed electron ablation. Applied Surface Science, 2019, 475, 917-925.	6.1	21
38	Plasma-assisted deposition of bone apatite-like thin films from natural apatite. Materials Letters, 2017, 199, 32-36.	2.6	18
39	Nanomechanical mapping of bone tissue regenerated by magnetic scaffolds. Journal of Materials Science: Materials in Medicine, 2015, 26, 5363.	3.6	17
40	Osteogenic Differentiation of hDPSCs on Biogenic Bone Apatite Thin Films. Stem Cells International, 2017, 2017, 1-10.	2.5	17
41	NANOMECHANICAL CHARACTERIZATION OF ZIRCONIA THIN FILMS DEPOSITED ON UHMWPE BY PULSED PLASMA DEPOSITION. Journal of Mechanics in Medicine and Biology, 2015, 15, 1550070.	0.7	16
42	A comprehensive and narrative review of historical aspects and management of low-grade hallux rigidus: conservative and surgical possibilities. Musculoskeletal Surgery, 2018, 102, 201-211.	1.5	16
43	Fixation of Total Knee Arthroplasty Improved by Mobile-bearing Design. Clinical Orthopaedics and Related Research, 2005, &NA;, 186-195.	1.5	14
44	CERAMIC THIN FILMS REALIZED BY MEANS OF PULSED PLASMA DEPOSITION TECHNIQUE: APPLICATIONS FOR ORTHOPEDICS. Journal of Mechanics in Medicine and Biology, 2015, 15, 1540002.	0.7	14
45	Changes in knee motion over the first 3 years with a mobile-bearing prosthesis. Knee, 2006, 13, 301-306.	1.6	13
46	Optimizing thickness of ceramic coatings on plastic components for orthopedic applications: A finite element analysis. Materials Science and Engineering C, 2016, 58, 381-388.	7.3	13
47	The stress-inducible displacement detected through RSA in non-migrating UKR. Knee, 2005, 12, 301-306.	1.6	11
48	Posterior tibial tendon displacement behind the tibia and its interposition in an irreducible isolated ankle dislocation: a case report and literature review. Joints, 2016, 04, 183-188.	1.5	10
49	Synthetic Meniscal Scaffolds. Techniques in Knee Surgery, 2009, 8, 251-256.	0.1	9
50	Antibacterial Properties of a Novel Zirconium Phosphate-Glycinediphosphonate Loaded with Either Zinc or Silver. Materials, 2019, 12, 3184.	2.9	9
51	Monitoring morphological and chemical properties during silver solid-state dewetting. Applied Surface Science, 2019, 498, 143890.	6.1	9
52	Recurrence of varus/valgus deformity after TKR at 3 years' follow-up. Knee, 2008, 15, 20-25.	1.6	7
53	Application of magnetic rods for fixation in orthopedic treatments. Computers in Biology and Medicine, 2015, 61, 101-106.	7.0	5
54	Effects of working gas pressure on zirconium dioxide thin film prepared by pulsed plasma deposition: roughness, wettability, friction and wear characteristics. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 72, 200-208.	3.1	5

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55	Piezosurgery in Hallux Valgus Correction: Distal Linear Osteotomy Operative Technique Using Piezoelectric Tools. <i>Joints</i> , 2019, 07, 025-030.	1.5	5
56	Determination of the Spatial Anisotropy of the Surface MicroStructures of Different Implant Materials: An Atomic Force Microscopy Study. <i>Materials</i> , 2021, 14, 4803.	2.9	5
57	Evaluation of RSA set-up from a clinical biplane fluoroscopy system for 3D joint kinematic analysis. <i>Joints</i> , 2016, 04, 121-125.	1.5	5
58	Radiostereometric measurement of polyethylene deformation pattern in meniscal bearing TKR at 5Âyears follow-up. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2008, 16, 142-147.	4.2	4
59	A simulation environment for estimation of the performance of RSA cages. <i>Computers in Biology and Medicine</i> , 2008, 38, 1000-1006.	7.0	4
60	Investigation into the detection of marker movement by biplanar RSA. <i>Medical Engineering and Physics</i> , 2005, 27, 641-648.	1.7	3
61	Revisiting open capsuloplasty for the treatment of anterior shoulder instability: 35-year follow-up of the Du Toit procedure. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2007, 15, 1055-1061.	4.2	3
62	In silico prediction of the cell proliferation in porous scaffold using model of effective pore. <i>BioSystems</i> , 2013, 114, 227-237.	2.0	3
63	Ceramic coatings for orthopaedic implants: preparation and characterization. <i>Surface and Interface Analysis</i> , 2016, 48, 616-620.	1.8	3
64	Double-Bundle Anterior Cruciate Ligament Reconstruction: The Italian Experience. <i>Operative Techniques in Sports Medicine</i> , 2008, 16, 138-147.	0.3	2
65	Interfacing Polymers and Tissues: Quantitative Local Assessment of the Foreign Body Reaction of Mononuclear Phagocytes to Polymeric Materials. <i>Advanced Biology</i> , 2017, 1, e1700021.	3.0	2
66	Critical Long Bone Defect Treated by Magnetic Scaffolds and Fixed by Permanent Magnets. , 2013, , .		1
67	A Nanomechanical Investigation of Engineered Bone Tissue Comparing Elastoplastic and Viscoelastoplastic Modeling. <i>Advances in Materials Science and Engineering</i> , 2017, 2017, 1-8.	1.8	1
68	Nano-mechanical investigation of engineered bone tissue and of the osteochondral interface. <i>Materials Today: Proceedings</i> , 2019, 7, 516-521.	1.8	1
69	Design, Development and Validation of a Knee Brace to Standardize the US Imaging Evaluation of Knee Osteoarthritis. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , 2022, 10, 1-8.	3.7	1
70	Innovative Magnetic Nanoparticles Approaches for Bone and Osteochondral Tissue Engineering. , 2010, , .		0
71	Synthetic Meniscal Scaffolds. <i>Techniques in Knee Surgery</i> , 2012, 11, 62-67.	0.1	0
72	Double-Bundle Anterior Cruciate Ligament Reconstruction: The Italian Experience. <i>Operative Techniques in Sports Medicine</i> , 2012, 20, 23-32.	0.3	0

#	ARTICLE	IF	CITATIONS
73	Piezoelectric tools versus traditional oscillating saw for distal linear osteotomy in hallux valgus correction: Triple-blinded, randomized controlled study. Foot and Ankle Surgery, 2021, , .	1.7	0
74	Head, Low-Back and Muscle Injuries in Athletes: PRP and Stem Cells in Sports-Related Diseases. , 2014, , 273-311.		0