

# Andrea Visani

## List of Publications by Year in descending order

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Version: 2024-02-01

68  
papers

1,898  
citations

279798

23  
h-index

276875

41  
g-index

69  
all docs

69  
docs citations

69  
times ranked

1635  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nano-Based Biomaterials as Drug Delivery Systems Against Osteoporosis: A Systematic Review of Preclinical and Clinical Evidence. <i>Nanomaterials</i> , 2021, 11, 530.	4.1	33
2	How preconditioning and pretensioning of grafts used in ACLigaments surgical reconstruction are influenced by their mechanical time-dependent characteristics: Can we optimize their initial loading state?. <i>Clinical Biomechanics</i> , 2021, 83, 105294.	1.2	6
3	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
4	Biosynthetic scaffolds for partial meniscal loss: A systematic review from animal models to clinical practice. <i>Bioactive Materials</i> , 2021, 6, 3782-3800.	15.6	17
5	The Impact of Frailty on Spine Surgery: Systematic Review on 10 years Clinical Studies. , 2021, 12, 625.		47
6	Assessing conformal thin film growth under nonstochastic deposition conditions: application of a phenomenological model of roughness replication to synthetic topographic images. <i>Journal of Microscopy</i> , 2020, 280, 270-279.	1.8	3
7	Evidence from systematic reviews on photobiomodulation of human bone and stromal cells: Where do we stand?. <i>Archives of Biochemistry and Biophysics</i> , 2020, 685, 108333.	3.0	2
8	Monitoring morphological and chemical properties during silver solid-state dewetting. <i>Applied Surface Science</i> , 2019, 498, 143890.	6.1	9
9	Biosensors for real-time monitoring of physiological processes in the musculoskeletal system: A systematic review. <i>Journal of Cellular Physiology</i> , 2019, 234, 21504-21518.	4.1	4
10	Functionalization of Ceramic Coatings for Enhancing Integration in Osteoporotic Bone: A Systematic Review. <i>Coatings</i> , 2019, 9, 312.	2.6	8
11	Nanoindentation: An advanced procedure to investigate osteochondral engineered tissues. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 96, 79-87.	3.1	12
12	Nanostructured Ag thin films deposited by pulsed electron ablation. <i>Applied Surface Science</i> , 2019, 475, 917-925.	6.1	21
13	Effects of working gas pressure on zirconium dioxide thin film prepared by pulsed plasma deposition: roughness, wettability, friction and wear characteristics. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 72, 200-208.	3.1	5
14	Osteogenic Differentiation of hDPSCs on Biogenic Bone Apatite Thin Films. <i>Stem Cells International</i> , 2017, 2017, 1-10.	2.5	17
15	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
16	Changes in the orientation of knee functional flexion axis during passive flexion and extension movements in navigated total knee arthroplasty. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2016, 24, 2461-2469.	4.2	4
17	Tribological characterization of zirconia coatings deposited on Ti6Al4V components for orthopedic applications. <i>Materials Science and Engineering C</i> , 2016, 62, 643-655.	7.3	35
18	Optimizing thickness of ceramic coatings on plastic components for orthopedic applications: A finite element analysis. <i>Materials Science and Engineering C</i> , 2016, 58, 381-388.	7.3	13

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19	Comparison of three formal methods used to estimate the functional axis of rotation: an extensive <i>in-vivo</i> analysis performed on the knee joint. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2016, 19, 484-492.	1.6	15
20	Application of magnetic rods for fixation in orthopedic treatments. <i>Computers in Biology and Medicine</i> , 2015, 61, 101-106.	7.0	5
21	RESTORATION OF THE SEAL FUNCTION OF THE ACETABULAR LABRUM: <i>IN VITRO</i> STUDY. <i>Journal of Mechanics in Medicine and Biology</i> , 2015, 15, 1540036.	0.7	1
22	NANOMECHANICAL CHARACTERIZATION OF ZIRCONIA THIN FILMS DEPOSITED ON UHMWPE BY PULSED PLASMA DEPOSITION. <i>Journal of Mechanics in Medicine and Biology</i> , 2015, 15, 1550070.	0.7	16
23	Tough and adhesive nanostructured calcium phosphate thin films deposited by the pulsed plasma deposition method. <i>RSC Advances</i> , 2015, 5, 78561-78571.	3.6	26
24	61 Navigated Revision Total Knee Replacement. , 2015, , 735-745.		0
25	Analysis of knee functional flexion axis in navigated TKA: identification and repeatability before and after implant positioning. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2014, 22, 694-702.	4.2	11
26	Can rotatory knee laxity be predicted in isolated anterior cruciate ligament surgery?. <i>International Orthopaedics</i> , 2014, 38, 1167-1172.	1.9	14
27	Inertial sensors to quantify the pivot shift test in the treatment of anterior cruciate ligament injury. <i>Joints</i> , 2014, 02, 124-129.	1.5	31
28	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
29	Innovative Technology for Knee Laxity Evaluation. <i>Clinics in Sports Medicine</i> , 2013, 32, 61-70.	1.8	31
30	Second-generation arthroscopic autologous chondrocyte implantation for the treatment of degenerative cartilage lesions. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2012, 20, 1704-1713.	4.2	74
31	An original clinical methodology for non-invasive assessment of pivot-shift test. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2012, 15, 1323-1328.	1.6	103
32	A new approach to scaffold fixation by magnetic forces: Application to large osteochondral defects. <i>Medical Engineering and Physics</i> , 2012, 34, 1287-1293.	1.7	21
33	Semiempirical simulation of x-ray detectors for imaging applications. <i>Medical Physics</i> , 2012, 39, 7677-7685.	3.0	7
34	Innovative magnetic scaffolds for orthopedic tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2012, 100A, 2278-2286.	4.0	42
35	Quantitative assessment of pivot-shift using inertial sensors. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2012, 20, 713-717.	4.2	94
36	Anatomic double-bundle and over-the-top single-bundle with additional extra-articular tenodesis: an in vivo quantitative assessment of knee laxity in two different ACL reconstructions. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2012, 20, 153-159.	4.2	94

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37	Pivotâ€shift test: Analysis and quantification of knee laxity parameters using a navigation system. Journal of Orthopaedic Research, 2010, 28, 164-169.	2.3	115
38	ACCURACY CHARACTERIZATION OF AN INTEGRATED OPTICAL-BASED METHOD FOR LOADS MEASUREMENT IN COMPUTER AIDED SURGERY. Journal of Mechanics in Medicine and Biology, 2010, 10, 577-591.	0.7	4
39	Monte Carlo simulator of realistic x-ray beam for diagnostic applications. Medical Physics, 2010, 37, 4201-4209.	3.0	11
40	Knee stability before and after total and unicondylar knee replacement: In vivo kinematic evaluation utilizing navigation. Journal of Orthopaedic Research, 2009, 27, 202-207.	2.3	36
41	Reliability of a navigation system for intra-operative evaluation of antero-posterior knee joint laxity. Computers in Biology and Medicine, 2009, 39, 280-285.	7.0	63
42	Radiostereometric measurement of polyethylene deformation pattern in meniscal bearing TKR at 5 years follow-up. Knee Surgery, Sports Traumatology, Arthroscopy, 2008, 16, 142-147.	4.2	4
43	Relationship between coracoacromial arch and rotator cuff analysed by a computer-assisted method. International Journal of Medical Robotics and Computer Assisted Surgery, 2008, 4, 174-179.	2.3	1
44	A protocol for clinical evaluation of the carrying angle of the elbow by anatomic landmarks. Journal of Shoulder and Elbow Surgery, 2008, 17, 106-112.	2.6	24
45	Anthropometric and Strength Variables to Predict Freestyle Performance Times in Elite Master Swimmers. Journal of Strength and Conditioning Research, 2008, 22, 1298-1307.	2.1	61
46	Trend Of The Carrying Angle During Flexion-Extension Of The Elbow Joint: A Pilot Study. Orthopedics, 2008, 31, 76.	1.1	12
47	Estimating the Elbow Carrying Angle With an Electrogoniometer: Acquisition of Data and Reliability of Measurements. Orthopedics, 2008, 31, 370.	1.1	15
48	Validation of a new protocol for navigated intraoperative assessment of knee kinematics. Computers in Biology and Medicine, 2007, 37, 872-878.	7.0	52
49	Revisiting open capsuloplasty for the treatment of anterior shoulder instability: 35-year follow-up of the Du Toit procedure. Knee Surgery, Sports Traumatology, Arthroscopy, 2007, 15, 1055-1061.	4.2	3
50	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
51	Development and applications of a software tool for diarthrodial joint analysis. Computer Methods and Programs in Biomedicine, 2006, 83, 50-56.	4.7	10
52	Changes in knee motion over the first 3 years with a mobile-bearing prosthesis. Knee, 2006, 13, 301-306.	1.6	13
53	The stress-inducible displacement detected through RSA in non-migrating UKR. Knee, 2005, 12, 301-306.	1.6	11
54	Multiple osteochondral arthroscopic grafting (mosaicplasty) for cartilage defects of the knee: Prospective study results at 2-year follow-up. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2005, 21, 462-470.	2.7	117

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55	Computer analysis of PCL fibres during range of motion. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2004, 12, 420-8.	4.2	12
56	Criteria of interface evaluation for computer assisted surgery systems. <i>International Journal of Medical Informatics</i> , 2003, 72, 35-45.	3.3	14
57	Vascularity and neuroreceptors of the pes anserinus: Anatomic Study. <i>Clinical Anatomy</i> , 2003, 16, 19-24.	2.7	72
58	A roentgen stereophotogrammetric analysis of unicompartmental knee arthroplasty. <i>Journal of Arthroplasty</i> , 2002, 17, 556-561.	3.1	17
59	Arthroscopic autologous chondrocyte transplantation: technical note. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2002, 10, 154-159.	4.2	170
60	Micromotion between the half bearings in the interax prosthesis: A roentgen stereophotogrammetric analysis. <i>Journal of Arthroplasty</i> , 2001, 16, 991-997.	3.1	6
61	The Mobility of the Proximal Tibio-Fibular Joint. A Roentgen Stereophotogrammetric Analysis on Six Cadaver Specimens. <i>Foot and Ankle International</i> , 2000, 21, 336-342.	2.3	25
62	Results of the original Putti-Platt procedure for shoulder instability: review of Putti's scholar experience. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2000, 8, 314-319.	4.2	20
63	Variation of the spatial position computed by Roentgen Stereophotogrammetric Analysis (RSA) under non-standard conditions. <i>Medical Engineering and Physics</i> , 1999, 21, 575-581.	1.7	7
64	Total knee arthroplasty without patellar resurfacing in active and overweight patients. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 1997, 5, 258-261.	4.2	8
65	Arthroscopic management of recurrent anterior dislocation of the shoulder: analysis of technical modifications on the Caspari procedure. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 1996, 12, 144-149.	2.7	27
66	Arthroscopic reconstruction of the anterior cruciate ligament with Leeds-Keio ligament in non-professional athletes. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 1996, 4, 9-13.	4.2	15
67	Results in the treatment of recurrent dislocation of the patella after 30 years' follow-up. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 1995, 3, 163-166.	4.2	35
68	A system for computer and robot assisted knee implantation. , 1992, , .		2