

# Ara Nazarian

## List of Publications by Citations

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107  
papers

3,061  
citations

28  
h-index

53  
g-index

111  
ext. papers

3,888  
ext. citations

5.4  
avg, IF

5.31  
L-index

#	Paper	IF	Citations
107	Clinical trial of a farnesyltransferase inhibitor in children with Hutchinson-Gilford progeria syndrome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 16666-71	11.5	236
106	Design of biodegradable, implantable devices towards clinical translation. <i>Nature Reviews Materials</i> , <b>2020</b> , 5, 61-81	73.3	188
105	Bone fracture healing in mechanobiological modeling: A review of principles and methods. <i>Bone Reports</i> , <b>2017</b> , 6, 87-100	2.6	185
104	Biomechanics and mechanobiology of trabecular bone: a review. <i>Journal of Biomechanical Engineering</i> , <b>2015</b> , 137,	2.1	170
103	Bone volume fraction explains the variation in strength and stiffness of cancellous bone affected by metastatic cancer and osteoporosis. <i>Calcified Tissue International</i> , <b>2008</b> , 83, 368-79	3.9	136
102	Time-lapsed microstructural imaging of bone failure behavior. <i>Journal of Biomechanics</i> , <b>2004</b> , 37, 55-65	2.9	132
101	A dendritic thioester hydrogel based on thiol-thioester exchange as a dissolvable sealant system for wound closure. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 14070-4	16.4	125
100	On-Demand Dissolution of a Dendritic Hydrogel-based Dressing for Second-Degree Burn Wounds through Thiol-Thioester Exchange Reaction. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 9984-7	16.4	122
99	Quantitative micro-computed tomography: a non-invasive method to assess equivalent bone mineral density. <i>Bone</i> , <b>2008</b> , 43, 302-311	4.7	97
98	Clinical Trial of the Protein Farnesylation Inhibitors Lonafarnib, Pravastatin, and Zoledronic Acid in Children With Hutchinson-Gilford Progeria Syndrome. <i>Circulation</i> , <b>2016</b> , 134, 114-25	16.7	96
97	Adhesive capsulitis of the shoulder: review of pathophysiology and current clinical treatments. <i>Shoulder and Elbow</i> , <b>2017</b> , 9, 75-84	1.8	94
96	The interaction of microstructure and volume fraction in predicting failure in cancellous bone. <i>Bone</i> , <b>2006</b> , 39, 1196-202	4.7	83
95	Thermoplastic moulding of regenerated silk. <i>Nature Materials</i> , <b>2020</b> , 19, 102-108	27	68
94	CT-based Structural Rigidity Analysis Is More Accurate Than Mirels Scoring for Fracture Prediction in Metastatic Femoral Lesions. <i>Clinical Orthopaedics and Related Research</i> , <b>2016</b> , 474, 643-51	2.2	62
93	Compressive axial mechanical properties of rat bone as functions of bone volume fraction, apparent density and micro-ct based mineral density. <i>Journal of Biomechanics</i> , <b>2010</b> , 43, 953-60	2.9	62
92	Densitometric, morphometric and mechanical distributions in the human proximal femur. <i>Journal of Biomechanics</i> , <b>2007</b> , 40, 2573-9	2.9	56
91	Hutchinson-Gilford progeria is a skeletal dysplasia. <i>Journal of Bone and Mineral Research</i> , <b>2011</b> , 26, 1670-9	9.3	54

90	Specimen size and porosity can introduce error into microCT-based tissue mineral density measurements. <i>Bone</i> , <b>2009</b> , 44, 176-84	4.7	53
89	Meta-analysis and Systematic Review of Skin Graft Donor-site Dressings with Future Guidelines. <i>Plastic and Reconstructive Surgery - Global Open</i> , <b>2018</b> , 6, e1928	1.2	51
88	Medial Patellofemoral Ligament Reconstruction Combined With Bony Procedures for Patellar Instability: Current Indications, Outcomes, and Complications. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , <b>2016</b> , 32, 1421-7	5.4	46
87	Changes in Contact Area in Meniscus Horizontal Cleavage Tears Subjected to Repair and Resection. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , <b>2017</b> , 33, 617-624	5.4	45
86	Risk Factors and Pooled Rate of Prolonged Opioid Use Following Trauma or Surgery: A Systematic Review and Meta-(Regression) Analysis. <i>Journal of Bone and Joint Surgery - Series A</i> , <b>2018</b> , 100, 1332-1340	5.6	44
85	Analysis of a new all-inside versus inside-out technique for repairing radial meniscal tears. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , <b>2015</b> , 31, 293-8	5.4	43
84	Recent Advances in Dendritic Macromonomers for Hydrogel Formation and Their Medical Applications. <i>Biomacromolecules</i> , <b>2016</b> , 17, 1235-52	6.9	42
83	Quantitative (31)P NMR spectroscopy and (1)H MRI measurements of bone mineral and matrix density differentiate metabolic bone diseases in rat models. <i>Bone</i> , <b>2010</b> , 46, 1582-90	4.7	39
82	Treatment Planning and Fracture Prediction in Patients with Skeletal Metastasis with CT-Based Rigidity Analysis. <i>Clinical Cancer Research</i> , <b>2015</b> , 21, 2514-9	12.9	35
81	Active agents, biomaterials, and technologies to improve biolubrication and strengthen soft tissues. <i>Biomaterials</i> , <b>2018</b> , 181, 210-226	15.6	29
80	Comparison of all-inside meniscal repair devices with matched inside-out suture repair. <i>American Journal of Sports Medicine</i> , <b>2011</b> , 39, 2634-9	6.8	28
79	Design and implementation of a novel mechanical testing system for cellular solids <b>2005</b> , 73, 400-11		27
78	Rehabilitation following meniscal repair: a systematic review. <i>BMJ Open Sport and Exercise Medicine</i> , <b>2018</b> , 4, e000212	3.4	26
77	Biomechanical evaluation of an all-inside suture-based device for repairing longitudinal meniscal tears. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , <b>2015</b> , 31, 428-34	5.4	21
76	A prospective study of radiographic manifestations in Hutchinson-Gilford progeria syndrome. <i>Pediatric Radiology</i> , <b>2012</b> , 42, 1089-98	2.8	21
75	A hydrogel sealant for the treatment of severe hepatic and aortic trauma with a dissolution feature for post-emergent care. <i>Materials Horizons</i> , <b>2017</b> , 4, 222-227	14.4	19
74	Computational modeling of human bone fracture healing affected by different conditions of initial healing stage. <i>BMC Musculoskeletal Disorders</i> , <b>2019</b> , 20, 562	2.8	19
73	Comparative Efficacy and Safety of Nonsurgical Treatment Options for Enthesopathy of the Extensor Carpi Radialis Brevis: A Systematic Review and Meta-analysis of Randomized Placebo-Controlled Trials. <i>American Journal of Sports Medicine</i> , <b>2019</b> , 47, 3019-3029	6.8	17

72	Accuracy and Measurement Error of the Medial Clear Space of the Ankle. <i>Foot and Ankle International</i> , <b>2017</b> , 38, 443-451	3.3	15
71	Intraarticular injection of relaxin-2 alleviates shoulder arthrofibrosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 12183-12192	11.5	15
70	The effect of docosahexaenoic acid on bone microstructure in young mice and bone fracture in neonates. <i>Journal of Surgical Research</i> , <b>2014</b> , 191, 148-55	2.5	15
69	A biomechanical evaluation of all-inside 2-stitch meniscal repair devices with matched inside-out suture repair. <i>American Journal of Sports Medicine</i> , <b>2014</b> , 42, 194-9	6.8	15
68	Comparison of adverse events and postoperative mobilization following knee extensor mechanism rupture repair: A systematic review and network meta-analysis. <i>Injury</i> , <b>2017</b> , 48, 2793-2799	2.5	14
67	Hierarchical analysis and multi-scale modelling of rat cortical and trabecular bone. <i>Journal of the Royal Society Interface</i> , <b>2015</b> , 12,	4.1	14
66	In vivo kinetic evaluation of an adhesive capsulitis model in rats. <i>Journal of Shoulder and Elbow Surgery</i> , <b>2015</b> , 24, 1809-16	4.3	14
65	Does CT-based Rigidity Analysis Influence Clinical Decision-making in Simulations of Metastatic Bone Disease?. <i>Clinical Orthopaedics and Related Research</i> , <b>2016</b> , 474, 652-9	2.2	14
64	Evaluation of musculoskeletal phenotype of the G608G progeria mouse model with lonafarnib, pravastatin, and zoledronic acid as treatment groups. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 12029-12040	11.5	13
63	Medications as a Risk Factor for Fragility Hip Fractures: A Systematic Review and Meta-analysis. <i>Calcified Tissue International</i> , <b>2020</b> , 107, 1-9	3.9	13
62	The effect of simulated scapular winging on glenohumeral joint translations. <i>Journal of Shoulder and Elbow Surgery</i> , <b>2013</b> , 22, 986-92	4.3	13
61	Computed tomography-based rigidity analysis: a review of the approach in preclinical and clinical studies. <i>BoneKEY Reports</i> , <b>2014</b> , 3, 587		13
60	Application of structural rigidity analysis to assess fidelity of healed fractures in rat femurs with critical defects. <i>Calcified Tissue International</i> , <b>2010</b> , 86, 397-403	3.9	13
59	Design and validation of a testing system to assess torsional cancellous bone failure in conjunction with time-lapsed micro-computed tomographic imaging. <i>Journal of Biomechanics</i> , <b>2008</b> , 41, 3496-501	2.9	13
58	Post-traumatic elbow stiffness: Pathogenesis and current treatments. <i>Shoulder and Elbow</i> , <b>2020</b> , 12, 38-45	1.8	13
57	Functional dependence of cancellous bone shear properties on trabecular microstructure evaluated using time-lapsed micro-computed tomographic imaging and torsion testing. <i>Journal of Orthopaedic Research</i> , <b>2009</b> , 27, 1667-74	3.8	12
56	Concept of a Radiofrequency Device for Osteopenia/Osteoporosis Screening. <i>Scientific Reports</i> , <b>2020</b> , 10, 3540	4.9	11
55	On-Demand Dissolution of a Dendritic Hydrogel-based Dressing for Second-Degree Burn Wounds through Thiol-Thioester Exchange Reaction. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 10138-10141	3.6	11

54	The effect of supraspinatus tears on glenohumeral translations in passive pitching motion. <i>American Journal of Sports Medicine</i> , <b>2014</b> , 42, 2455-62	6.8	11
53	Multi-purpose VHP-female version 3.0 cross-platform computational human model <b>2016</b> ,		11
52	Further improvements on the factors affecting bone mineral density measured by quantitative micro-computed tomography. <i>Bone</i> , <b>2012</b> , 50, 611-8	4.7	10
51	A Dendritic Thioester Hydrogel Based on Thiol-Thioester Exchange as a Dissolvable Sealant System for Wound Closure. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 14320-14324	3.6	10
50	Tensile properties of rat femoral bone as functions of bone volume fraction, apparent density and volumetric bone mineral density. <i>Journal of Biomechanics</i> , <b>2011</b> , 44, 2482-8	2.9	10
49	Short term results of anterior cruciate ligament augmentation in professional and amateur athletes. <i>Journal of Orthopaedics and Traumatology</i> , <b>2017</b> , 18, 171-176	5	9
48	Preliminary evaluation of a robotic apparatus for the analysis of passive glenohumeral joint kinematics. <i>Journal of Orthopaedic Surgery and Research</i> , <b>2013</b> , 8, 24	2.8	9
47	Finite element analysis and computed tomography based structural rigidity analysis of rat tibia with simulated lytic defects. <i>Journal of Biomechanics</i> , <b>2013</b> , 46, 2701-9	2.9	9
46	Limitations of global morphometry in predicting trabecular bone failure. <i>Journal of Bone and Mineral Research</i> , <b>2014</b> , 29, 134-41	6.3	9
45	Non-invasive assessment of failure torque in rat bones with simulated lytic lesions using computed tomography based structural rigidity analysis. <i>Journal of Biomechanics</i> , <b>2011</b> , 44, 552-6	2.9	9
44	Shoulder biomechanics of RC repair and Instability: A systematic review of cadaveric methodology. <i>Journal of Biomechanics</i> , <b>2019</b> , 82, 280-290	2.9	9
43	Scapular Dyskinesis: From Basic Science to Ultimate Treatment. <i>International Journal of Environmental Research and Public Health</i> , <b>2020</b> , 17,	4.6	8
42	Posterior Capsular Plication Constrains the Glenohumeral Joint by Drawing the Humeral Head Closer to the Glenoid and Resisting Abduction. <i>Orthopaedic Journal of Sports Medicine</i> , <b>2015</b> , 3, 23259671175599347	3.5	8
41	Limb reconstruction with decellularized, non-demineralized bone in a young leporine model. <i>Biomedical Materials (Bristol)</i> , <b>2015</b> , 10, 015021	3.5	8
40	3D Bioprinted Bacteriostatic Hyperelastic Bone Scaffold for Damage-Specific Bone Regeneration. <i>Polymers</i> , <b>2021</b> , 13,	4.5	8
39	Effects of different loading patterns on the trabecular bone morphology of the proximal femur using adaptive bone remodeling. <i>Journal of Biomechanical Engineering</i> , <b>2015</b> , 137,	2.1	7
38	The efficacy of a lysine-based dendritic hydrogel does not differ from those of commercially available tissue sealants and adhesives: an ex vivo study. <i>BMC Musculoskeletal Disorders</i> , <b>2015</b> , 16, 116	2.8	7
37	Predicting factors of muscle necrosis in acute compartment syndrome of the lower extremity. <i>Injury</i> , <b>2020</b> , 51, 522-526	2.5	7

36	Cost-Effectiveness of Supervised versus Unsupervised Rehabilitation for Rotator-Cuff Repair: Systematic Review and Meta-Analysis. <i>International Journal of Environmental Research and Public Health</i> , <b>2020</b> , 17,	4.6	6
35	DIRECT PERCUTANEOUS GENE DELIVERY TO ENHANCE HEALING OF SEGMENTAL BONE DEFECTS. <i>Journal of Bone and Joint Surgery - Series A</i> , <b>2006</b> , 88, 355-365	5.6	6
34	Clinical Management of Arthrofibrosis: State of the Art and Therapeutic Outlook. <i>JBJS Reviews</i> , <b>2020</b> , 8, e1900223	2.6	5
33	Association between Hemiarthroplasty vs Total Hip Arthroplasty and Major Surgical Complications among Patients with Femoral Neck Fracture. <i>Journal of Clinical Medicine</i> , <b>2020</b> , 9,	5.1	5
32	Influence of disruption of the acromioclavicular and coracoclavicular ligaments on glenohumeral motion: a kinematic evaluation. <i>BMC Musculoskeletal Disorders</i> , <b>2016</b> , 17, 480	2.8	5
31	Seasonal impact on surgical site infections in hip fracture surgery: Analysis of 330,803 cases using a nationwide inpatient database. <i>Injury</i> , <b>2021</b> , 52, 898-904	2.5	5
30	Genetic reduction of mTOR extends lifespan in a mouse model of Hutchinson-Gilford Progeria syndrome. <i>Aging Cell</i> , <b>2021</b> , 20, e13457	9.9	5
29	Pressure Distribution in the Ankle and Subtalar Joint With Routine and Oversized Foot Orthoses. <i>Foot and Ankle International</i> , <b>2018</b> , 39, 994-1000	3.3	4
28	Comparison of surgical and non-surgical treatments for 3- and 4-part proximal humerus fractures: A network meta-analysis. <i>Shoulder and Elbow</i> , <b>2020</b> , 12, 99-108	1.8	4
27	Proximity of the Lateral Calcaneal Artery With a Modified Extensile Lateral Approach Compared to Standard Extensile Approach. <i>Foot and Ankle International</i> , <b>2017</b> , 38, 318-323	3.3	3
26	Novel on-body microwave antenna array testbed for highly-sensitive measurements of wrist bone signature <b>2017</b> ,		3
25	VHP-Female CAD human model family for antenna modeling <b>2016</b> ,		3
24	Effects of dietary omega-3 fatty acids on bones of healthy mice. <i>Clinical Nutrition</i> , <b>2019</b> , 38, 2145-2154	5.9	3
23	Lateral Release With Tibial Tuberosity Transfer Alters Patellofemoral Biomechanics Promoting Multidirectional Patellar Instability. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , <b>2021</b> ,	5.4	3
22	gelling and dissolvable hydrogels for use as on-demand wound dressings for burns. <i>Biomaterials Science</i> , <b>2021</b> , 9, 6842-6850	7.4	3
21	The effect of the rotator interval on glenohumeral kinematics during abduction. <i>BMC Musculoskeletal Disorders</i> , <b>2016</b> , 17, 46	2.8	2
20	Virtual Humans for antenna/implant modeling <b>2017</b> ,		2
19	Glenohumeral Joint Kinematics following Clavicular Fracture and Repairs. <i>PLoS ONE</i> , <b>2017</b> , 12, e0164549	3.7	2

18	Tendon lengthening after achilles tendon rupture-passive effects on the ankle joint in a cadaveric pilot study simulating weight bearing. <i>Injury</i> , <b>2020</b> , 51, 532-536	2.5	2
17	Evolution of knowledge on meniscal biomechanics: a 40-year perspective. <i>BMC Musculoskeletal Disorders</i> , <b>2021</b> , 22, 625	2.8	2
16	Biomechanical properties of an intramedullary suture anchor fixation compared to tension band wiring in osteoporotic olecranon fractures- A cadaveric study. <i>Journal of Orthopaedics</i> , <b>2020</b> , 17, 144-149 <sup>1.6</sup>	1.6	2
15	Effect of rotator cuff muscle activation on glenohumeral kinematics: A cadaveric study. <i>Journal of Biomechanics</i> , <b>2020</b> , 105, 109798	2.9	2
14	Bone Remodeling under Vibration: A Computational Model of Bone Remodeling Incorporating the Modal Behavior of Bone. <i>Journal of Biomechanical Engineering</i> , <b>2018</b> ,	2.1	1
13	Anatomical axes of the proximal and distal halves of the femur in a normally aligned healthy population: implications for surgery. <i>Journal of Orthopaedic Surgery and Research</i> , <b>2018</b> , 13, 21	2.8	1
12	Hyperflexion and Femoral Interference Screw Insertion in ACL Reconstruction. <i>Orthopaedic Journal of Sports Medicine</i> , <b>2018</b> , 6, 2325967118788810	3.5	1
11	Consideration of medial anatomical structures at risk when placing quadricortical syndesmotic fixation: A cadaveric study. <i>Injury</i> , <b>2020</b> , 51, 527-531	2.5	1
10	A Historical Analysis of Randomized Controlled Trials in Rotator Cuff Tears. <i>International Journal of Environmental Research and Public Health</i> , <b>2020</b> , 17,	4.6	1
9	Association between hospital surgical volume and complications after total hip arthroplasty in femoral neck fracture: A propensity score-matched cohort study. <i>Injury</i> , <b>2021</b> , 52, 3002-3010	2.5	1
8	Conservative versus accelerated rehabilitation after rotator cuff repair: a systematic review and meta-analysis. <i>BMC Musculoskeletal Disorders</i> , <b>2021</b> , 22, 637	2.8	1
7	Rat Model of Adhesive Capsulitis of the Shoulder. <i>Journal of Visualized Experiments</i> , <b>2018</b> ,	1.6	1
6	Risk factors for developing acute compartment syndrome in the pediatric population: a systematic review and meta-analysis. <i>European Journal of Orthopaedic Surgery and Traumatology</i> , <b>2020</b> , 30, 839-844 <sup>2.2</sup>	2.2	0
5	Lateral release associated with MPFL reconstruction in patients with acute patellar dislocation.. <i>BMC Musculoskeletal Disorders</i> , <b>2022</b> , 23, 139	2.8	0
4	Tendinopathy and tendon material response to load: What we can learn from small animal studies. <i>Acta Biomaterialia</i> , <b>2021</b> , 134, 43-56	10.8	0
3	Enhancing fracture repair: cell-based approaches.. <i>OTA International the Open Access Journal of Orthopaedic Trauma</i> , <b>2022</b> , 5, e168	0.9	0
2	Non-Invasive Prediction of Fracture Risk Due to Benign and Metastatic Skeletal Defects. <i>Materials Research Society Symposia Proceedings</i> , <b>2004</b> , 844, 1		
1	Factors Associated with Development of Traumatic Acute Compartment Syndrome: A Systematic Review and Meta-analysis. <i>Archives of Bone and Joint Surgery</i> , <b>2021</b> , 9, 263-271	1.1	

