

# Tamar Brosh

## List of Publications by Year in descending order

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93  
papers

2,377  
citations

201385

27  
h-index

243296

44  
g-index

93  
all docs

93  
docs citations

93  
times ranked

2777  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of combinations of surface treatments and bonding agents on the bond strength of repaired composites. <i>Journal of Prosthetic Dentistry</i> , 1997, 77, 122-126.	1.1	188
2	Enhancement of incisional wound healing by thrombin conjugated iron oxide nanoparticles. <i>Biomaterials</i> , 2010, 31, 741-747.	5.7	155
3	A Self-Healing, All-Organic, Conducting, Composite Peptide Hydrogel as Pressure Sensor and Electrogenic Cell Soft Substrate. <i>ACS Nano</i> , 2019, 13, 163-175.	7.3	149
4	Accuracy of three polyvinyl siloxane putty-wash impression techniques. <i>Journal of Prosthetic Dentistry</i> , 2000, 83, 161-165.	1.1	95
5	A new intratracheal stent made from nitinol, an alloy with shape memory effect. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 1994, 107, 1255-1261.	0.4	79
6	Intermediate Screws in Short Segment Pedicular Fixation for Thoracic and Lumbar Fractures. <i>Journal of Spinal Disorders and Techniques</i> , 2007, 20, 72-77.	1.8	74
7	Effect of changing the saddle angle on the incidence of low back pain in recreational bicyclists. <i>British Journal of Sports Medicine</i> , 1999, 33, 398-400.	3.1	70
8	The influence of abutment angulation on strains and stresses along the implant/bone interface: Comparison between two experimental techniques. <i>Journal of Prosthetic Dentistry</i> , 1998, 79, 328-334.	1.1	64
9	Modeling the body/chair interaction – an integrative experimental-numerical approach. <i>Clinical Biomechanics</i> , 2000, 15, 217-219.	0.5	64
10	A single dose of platelet-rich plasma improves the organization and strength of a surgically repaired rotator cuff tendon in rats. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2014, 134, 1271-1277.	1.3	55
11	Detrimental Effect of Repeated and Single Subacromial Corticosteroid Injections on the Intact and Injured Rotator Cuff. <i>American Journal of Sports Medicine</i> , 2016, 44, 177-182.	1.9	51
12	Bracket Placement in Lingual vs Labial Systems and Direct vs Indirect Bonding. <i>Angle Orthodontist</i> , 2007, 77, 509-517.	1.1	50
13	Statins Enhance Rotator Cuff Healing by Stimulating the COX2/PGE2/EP4 Pathway. <i>American Journal of Sports Medicine</i> , 2014, 42, 2869-2876.	1.9	50
14	In-vivo von Mises strains during Invisalign treatment. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2010, 138, 399-409.	0.8	49
15	Tensile Properties of Three Selected Collagen Membranes. <i>BioMed Research International</i> , 2019, 2019, 1-8.	0.9	43
16	The impact velocity and bone fracture pattern: Forensic perspective. <i>Forensic Science International</i> , 2016, 266, 54-62.	1.3	40
17	Closure of skin incisions in rabbits by laser soldering: I: Wound healing pattern. <i>Lasers in Surgery and Medicine</i> , 2004, 35, 1-11.	1.1	39
18	Immediate Tight Sealing of Skin Incisions Using an Innovative Temperature-controlled Laser Soldering Device. <i>Annals of Surgery</i> , 2007, 245, 206-213.	2.1	37

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19	Enhanced Nanoassembly-Incorporated Antibacterial Composite Materials. ACS Applied Materials & Interfaces, 2019, 11, 21334-21342.	4.0	36
20	Predicting the clinical performance of dental students with a manual dexterity test. PLoS ONE, 2018, 13, e0193980.	1.1	35
21	Analysis of strength properties of light-cured resin composites. Dental Materials, 1999, 15, 174-179.	1.6	34
22	In vivo debonding strength and enamel damage in two orthodontic debonding methods. Journal of Biomechanics, 2005, 38, 1107-1113.	0.9	32
23	Novel laser tissue-soldering technique for dural reconstruction. Journal of Neurosurgery, 2005, 103, 87-91.	0.9	30
24	Effects of buccal versus lingual surfaces, enamel conditioning procedures and storage duration on brackets debonding characteristics. Journal of Dentistry, 2005, 33, 99-105.	1.7	30
25	Toward early detection of the tendency to stress fractures. Clinical Biomechanics, 1994, 9, 111-116.	0.5	28
26	Strains Recorded in a Combined Tooth-Implant Restoration: An In Vivo Study. Implant Dentistry, 2005, 14, 58-62.	1.7	28
27	Centric Slide, Bite Force and Muscle Tenderness Changes Over 6 Months Following Fixed Orthodontic Treatment. Angle Orthodontist, 2007, 77, 254-259.	1.1	27
28	Effect of irradiation time on tensile properties of stiffness and strength of composites. Journal of Prosthetic Dentistry, 1997, 77, 471-474.	1.1	25
29	The Effect of Bacterial Endotoxin on the Early Tensile Strength of Healing Surgical Wounds. Journal of Endodontics, 2002, 28, 30-33.	1.4	25
30	Closure of skin incisions in rabbits by laser soldering II: Tensile strength. Lasers in Surgery and Medicine, 2004, 35, 12-17.	1.1	25
31	The Effect of One-Step vs. Two-Step Impression Techniques on Long-Term Accuracy and Dimensional Stability when the Finish Line is within the Gingival Sulcular Area. Journal of Prosthodontics, 2014, 23, 124-133.	1.7	25
32	Repair of pig dura in vivo using temperature controlled CO2 laser soldering. Lasers in Surgery and Medicine, 2005, 37, 286-292.	1.1	23
33	Time-related PDL: viscoelastic response during initial orthodontic tooth movement of a tooth with functioning interproximal contact—A mathematical model. Journal of Biomechanics, 2008, 41, 1871-1877.	0.9	23
34	Duration of elastomeric separation and effect on interproximal contact point characteristics. American Journal of Orthodontics and Dentofacial Orthopedics, 2008, 133, 414-422.	0.8	23
35	Skeletal effect of casein and whey protein intake during catch-up growth in young male Sprague-Dawley rats. British Journal of Nutrition, 2016, 116, 59-69.	1.2	23
36	Tightness of dental contact points in spaced and non-spaced permanent dentitions. European Journal of Orthodontics, 2001, 23, 305-314.	1.1	22

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37	The effects of prolonged cryopreservation on the biomechanical properties of bone allografts: a microbiological, histological and mechanical study. <i>Cell and Tissue Banking</i> , 2000, 1, 69-73.	0.5	20
38	The effects of prolonged deep freezing on the biomechanical properties of osteochondral allografts. <i>Cell and Tissue Banking</i> , 2009, 10, 27-31.	0.5	19
39	Rapid palatal expansion. Part 3: Strains developed during active and retention phases. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 1998, 114, 123-133.	0.8	18
40	Consolidation of complex motor skill learning: evidence for a delayed offline process. <i>Sleep</i> , 2018, 41, .	0.6	18
41	Rapid palatal expansion. Part 2: Dentoskeletal changes in cats with patent versus synostosed midpalatal suture. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 1998, 113, 488-497.	0.8	17
42	Posterior and anterior components of force during bite loading. <i>Journal of Biomechanics</i> , 2007, 40, 820-827.	0.9	17
43	The influence of impact direction and axial loading on the bone fracture pattern. <i>Forensic Science International</i> , 2017, 277, 197-206.	1.3	17
44	The influence of surface loading and irradiation time during curing on mechanical properties of a composite. <i>Journal of Prosthetic Dentistry</i> , 1997, 77, 573-577.	1.1	16
45	Appropriateness of viscoelastic soft materials as in vitro simulators of the periodontal ligament. <i>Journal of Oral Rehabilitation</i> , 2011, 38, 929-939.	1.3	16
46	Long- and short-term effects of headgear traction with and without the maxillary second molars. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2014, 146, 467-476.	0.8	16
47	An interventional study for improving the manual dexterity of dentistry students. <i>PLoS ONE</i> , 2019, 14, e0211639.	1.1	16
48	Stiffness of different designs and cross-sections of maxillary and mandibular major connectors of removable partial dentures. <i>Journal of Prosthetic Dentistry</i> , 1999, 81, 526-532.	1.1	15
49	CO2 Laser Fascia to Dura Soldering for Pig Dural Defect Reconstruction. <i>Skull Base</i> , 2007, 17, 017-023.	0.4	14
50	Numerical and clinical study of the biomechanical behaviour of teeth under orthodontic loading using a headgear appliance. <i>Medical Engineering and Physics</i> , 2009, 31, 539-546.	0.8	14
51	Deformation/recovery cycle of the periodontal ligament in human teeth with single or dual contact points. <i>Archives of Oral Biology</i> , 2002, 47, 85-92.	0.8	13
52	Incremental growth of the maxillary tuberosity from 6 to 20 yearsâ€”A cross-sectional study. <i>Archives of Oral Biology</i> , 2010, 55, 655-662.	0.8	13
53	Dimensional stability of polyvinyl siloxane impression material reproducing the sulcular area. <i>Dental Materials Journal</i> , 2013, 32, 25-31.	0.8	12
54	Platelet-rich plasma did not improve early healing of medial collateral ligament in rats. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2015, 135, 1571-1577.	1.3	12

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55	Subacromial corticosteroid injections transiently decrease suture anchor pullout strength: biomechanical studies in rats. <i>Journal of Shoulder and Elbow Surgery</i> , 2017, 26, 1789-1793.	1.2	12
56	Effect of Different Surface Treatments of Lithium Disilicate on the Adhesive Properties of Resin Cements. <i>Materials</i> , 2021, 14, 3302.	1.3	12
57	Mechanical Resistance of Biological Repair Cartilage: Comparative <i>in vivo</i> Tests of Different Surgical Repair Procedures. <i>International Journal of Artificial Organs</i> , 2002, 25, 1109-1115.	0.7	11
58	Dural Defect Repair with Fascia by a CO2 Laser System in a Porcine Model. <i>Laryngoscope</i> , 2006, 116, 1002-1006.	1.1	11
59	The structural, compositional and mechanical features of the calcite shell of the barnacle <i>Tetraclita rufotincta</i> . <i>Journal of Structural Biology</i> , 2011, 175, 311-318.	1.3	11
60	Locking versus standard screw fixation for acetabular cups: is there a difference?. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2013, 133, 701-705.	1.3	11
61	Biomechanical properties of bone treated by magnetic resonance-guided focused ultrasound – an <i>in vivo</i> porcine model study. <i>Bone</i> , 2013, 57, 92-97.	1.4	11
62	Can cone beam CT predict the hardness of interradicular cortical bone?. <i>Head &amp; Face Medicine</i> , 2014, 10, 12.	0.8	11
63	Biomechanical characteristics of overweight and obese children during five different walking and running velocities. <i>Footwear Science</i> , 2017, 9, 149-159.	0.8	11
64	Circumferential root strains generated during lateral compaction with stainless steel vs. nickel-titanium finger spreaders. <i>European Journal of Oral Sciences</i> , 2018, 126, 518-525.	0.7	11
65	Effects of a Program for Improving Biomechanical Characteristics During Walking and Running in Children Who Are Obese. <i>Pediatric Physical Therapy</i> , 2017, 29, 330-340.	0.3	10
66	The effect of irradiation time on the shear strength of composites. <i>Dental Materials</i> , 1994, 10, 338-342.	1.6	9
67	Effect of polymerization under pressure on indirect tensile mechanical properties of light-polymerized composites. <i>Journal of Prosthetic Dentistry</i> , 2002, 88, 381-387.	1.1	9
68	Unequal outer and inner bow configurations: Comparing 2 asymmetric headgear systems. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2005, 128, 68-75.	0.8	9
69	The influence of dentin and/or metal surface treatment on the retention of cemented crowns in teeth with an increased taper. <i>Dental Materials</i> , 2008, 24, 1058-1064.	1.6	9
70	Influence of periodontal ligament simulation and splints on strains developing at the cervical area of a tooth crown. <i>European Journal of Oral Sciences</i> , 2012, 120, 466-471.	0.7	9
71	Colchicine inhibits fracture union and reduces bone strength – <i>in vivo</i> study. <i>Journal of Orthopaedic Research</i> , 2005, 23, 877-881.	1.2	8
72	Effect of root morphology on the susceptibility of endodontically treated teeth to vertical root fracture: An <i>ex-vivo</i> model. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 69, 267-274.	1.5	8

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73	The effect of impact tool geometry and soft material covering on long bone fracture patterns in children. <i>International Journal of Legal Medicine</i> , 2017, 131, 1011-1021.	1.2	8
74	Biomechanical evaluation of two arthroscopic techniques for biceps tenodesis: triple loop suture versus simple suture. <i>Journal of Shoulder and Elbow Surgery</i> , 2017, 26, 165-169.	1.2	8
75	Effect of Silane Reaction Time on the Repair of a Nanofilled Composite Using Tribochemical Treatment. <i>Journal of Adhesive Dentistry</i> , 2016, 18, 125-34.	0.3	8
76	Long-term durability of adhesive systems bonded to fresh amalgam. <i>Journal of Prosthetic Dentistry</i> , 1996, 76, 431-436.	1.1	7
77	Does Augmented Visual Feedback from Novel, Multicolored, Three-Dimensional-Printed Teeth Affect Dental Students' Acquisition of Manual Skills?. <i>Anatomical Sciences Education</i> , 2020, 14, 629-640.	2.5	6
78	Shear modulus—Measurement methodology with application to light-cured resin composites. <i>Dental Materials</i> , 1996, 12, 52-57.	1.6	5
79	Tensile Mechanical Properties of Swine Cortical Mandibular Bone. <i>PLoS ONE</i> , 2014, 9, e113229.	1.1	5
80	Fixation of humeral surgical neck fracture using contoured pins versus straight pins: a mechanical study. <i>International Orthopaedics</i> , 2007, 31, 811-815.	0.9	4
81	In vivo laser soldering of incisions in juvenile pig skins using GaAs or CO <sub>2</sub> lasers and a temperature control system. , 2004, , .		3
82	Strain Distribution in Root Surface Dentin of Maxillary Central Incisors during Lateral Compaction. <i>PLoS ONE</i> , 2016, 11, e0156461.	1.1	3
83	3D-Printed Teeth with Multicolored Layers as a Tool for Evaluating Cavity Preparation by Dental Students. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 6406.	1.3	3
84	Laser soldering of rabbit skin using IR fiber optic temperature control system. , 2001, 4244, 242.		2
85	<title>Laser soldering of cuts in rat skin using fiber optic temperature-controlled system</title>. , 2001, , .		1
86	New Training Approach for Improving the Spatial Perception and Orientation Ability of Dentistry Students. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 9387.	1.3	1
87	Effects of Aging Torque Controllers on Screw Tightening Force and Bacterial Micro-Leakage on the Implant-Abutment Complex. <i>Materials</i> , 2022, 15, 620.	1.3	1
88	<title>Laser soldering of pig skin in vivo using IR fiber optic temperature control system</title>. , 2002, 4609, 215.		0
89	Wound healing studies of skin incisions in animal models: laser soldering versus other bonding methods. , 2003, , .		0
90	Molding significantly affects the mechanical properties of Plaster of Paris in orthopaedic use. <i>Current Orthopaedic Practice</i> , 2013, 24, 647-650.	0.1	0

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91	Dural reconstruction by fascia using a temperature-controlled CO 2 laser soldering system. , 2005, , .		0
92	The Balance between Orthodontic Force and Radiation in the Jawbone: Microstructural, Histological, and Molecular Study in a Rat Model. <i>Biology</i> , 2021, 10, 1203.	1.3	0
93	Influence of Practitioner-Related Placement Variables on the Compressive Properties of Bulk-Fill Composite Resins—An In Vitro Clinical Simulation Study. <i>Materials</i> , 2022, 15, 4305.	1.3	0