

Tamar Brosh

List of Publications by Year in descending order

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93
papers

2,377
citations

201674
27
h-index

243625
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. Journal of Prosthetic Dentistry, 1997, 77, 122-126.	2.8	188
2	Enhancement of incisional wound healing by thrombin conjugated iron oxide nanoparticles. Biomaterials, 2010, 31, 741-747.	11.4	155
3	A Self-Healing, All-Organic, Conducting, Composite Peptide Hydrogel as Pressure Sensor and Electrogenic Cell Soft Substrate. ACS Nano, 2019, 13, 163-175.	14.6	149
4	Accuracy of three polyvinyl siloxane putty-wash impression techniques. Journal of Prosthetic Dentistry, 2000, 83, 161-165.	2.8	95
5	A new intratracheal stent made from nitinol, an alloy with "shape memory effect". Journal of Thoracic and Cardiovascular Surgery, 1994, 107, 1255-1261.	0.8	79
6	Intermediate Screws in Short Segment Pedicular Fixation for Thoracic and Lumbar Fractures. Journal of Spinal Disorders and Techniques, 2007, 20, 72-77.	1.9	74
7	Effect of changing the saddle angle on the incidence of low back pain in recreational bicyclists. British Journal of Sports Medicine, 1999, 33, 398-400.	6.7	70
8	The influence of abutment angulation on strains and stresses along the implant/bone interface: Comparison between two experimental techniques. Journal of Prosthetic Dentistry, 1998, 79, 328-334.	2.8	64
9	Modeling the body/chair interaction "an integrative experimental" numerical approach. Clinical Biomechanics, 2000, 15, 217-219.	1.2	64
10	A single dose of platelet-rich plasma improves the organization and strength of a surgically repaired rotator cuff tendon in rats. Archives of Orthopaedic and Trauma Surgery, 2014, 134, 1271-1277.	2.4	55
11	Detrimental Effect of Repeated and Single Subacromial Corticosteroid Injections on the Intact and Injured Rotator Cuff. American Journal of Sports Medicine, 2016, 44, 177-182.	4.2	51
12	Bracket Placement in Lingual vs Labial Systems and Direct vs Indirect Bonding. Angle Orthodontist, 2007, 77, 509-517.	2.4	50
13	Statins Enhance Rotator Cuff Healing by Stimulating the COX2/PGE2/EP4 Pathway. American Journal of Sports Medicine, 2014, 42, 2869-2876.	4.2	50
14	In-vivo von Mises strains during Invisalign treatment. American Journal of Orthodontics and Dentofacial Orthopedics, 2010, 138, 399-409.	1.7	49
15	Tensile Properties of Three Selected Collagen Membranes. BioMed Research International, 2019, 2019, 1-8.	1.9	43
16	The impact velocity and bone fracture pattern: Forensic perspective. Forensic Science International, 2016, 266, 54-62.	2.2	40
17	Closure of skin incisions in rabbits by laser soldering: I: Wound healing pattern. Lasers in Surgery and Medicine, 2004, 35, 1-11.	2.1	39
18	Immediate Tight Sealing of Skin Incisions Using an Innovative Temperature-controlled Laser Soldering Device. Annals of Surgery, 2007, 245, 206-213.	4.2	37

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19	Enhanced Nanoassembly-Incorporated Antibacterial Composite Materials. ACS Applied Materials & Interfaces, 2019, 11, 21334-21342.	8.0	36
20	Predicting the clinical performance of dental students with a manual dexterity test. PLoS ONE, 2018, 13, e0193980.	2.5	35
21	Analysis of strength properties of light-cured resin composites. Dental Materials, 1999, 15, 174-179.	3.5	34
22	In vivo debonding strength and enamel damage in two orthodontic debonding methods. Journal of Biomechanics, 2005, 38, 1107-1113.	2.1	32
23	Novel laser tissue-soldering technique for dural reconstruction. Journal of Neurosurgery, 2005, 103, 87-91.	1.6	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.	4.1	30
25	Toward early detection of the tendency to stress fractures. Clinical Biomechanics, 1994, 9, 111-116.	1.2	28
26	Strains Recorded in a Combined Tooth-Implant Restoration: An In Vivo Study. Implant Dentistry, 2005, 14, 58-62.	1.3	28
27	Centric Slide, Bite Force and Muscle Tenderness Changes Over 6 Months Following Fixed Orthodontic Treatment. Angle Orthodontist, 2007, 77, 254-259.	2.4	27
28	Effect of irradiation time on tensile properties of stiffness and strength of composites. Journal of Prosthetic Dentistry, 1997, 77, 471-474.	2.8	25
29	The Effect of Bacterial Endotoxin on the Early Tensile Strength of Healing Surgical Wounds. Journal of Endodontics, 2002, 28, 30-33.	3.1	25
30	Closure of skin incisions in rabbits by laser soldering II: Tensile strength. Lasers in Surgery and Medicine, 2004, 35, 12-17.	2.1	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.	3.7	25
32	Repair of pig dura in vivo using temperature controlled CO2 laser soldering. Lasers in Surgery and Medicine, 2005, 37, 286-292.	2.1	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.	2.1	23
34	Duration of elastomeric separation and effect on interproximal contact point characteristics. American Journal of Orthodontics and Dentofacial Orthopedics, 2008, 133, 414-422.	1.7	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.	2.3	23
36	Tightness of dental contact points in spaced and non-spaced permanent dentitions. European Journal of Orthodontics, 2001, 23, 305-314.	2.4	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.	1.1	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.	1.1	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.	1.7	18
40	Consolidation of complex motor skill learning: evidence for a delayed offline process. <i>Sleep</i> , 2018, 41, .	1.1	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.	1.7	17
42	Posterior and anterior components of force during bite loading. <i>Journal of Biomechanics</i> , 2007, 40, 820-827.	2.1	17
43	The influence of impact direction and axial loading on the bone fracture pattern. <i>Forensic Science International</i> , 2017, 277, 197-206.	2.2	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.	2.8	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.	3.0	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.	1.7	16
47	An interventional study for improving the manual dexterity of dentistry students. <i>PLoS ONE</i> , 2019, 14, e0211639.	2.5	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.	2.8	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.	1.7	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.	1.8	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.	1.8	13
53	Dimensional stability of polyvinyl siloxane impression material reproducing the sulcular area. <i>Dental Materials Journal</i> , 2013, 32, 25-31.	1.8	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.	2.4	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.	2.6	12
56	Effect of Different Surface Treatments of Lithium Disilicate on the Adhesive Properties of Resin Cements. <i>Materials</i> , 2021, 14, 3302.	2.9	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.	1.4	11
58	Dural Defect Repair with Fascia by a CO2 Laser System in a Porcine Model. <i>Laryngoscope</i> , 2006, 116, 1002-1006.	2.0	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.	2.8	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.	2.4	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.	2.9	11
62	Can cone beam CT predict the hardness of interradicular cortical bone?. <i>Head & Face Medicine</i> , 2014, 10, 12.	2.1	11
63	Biomechanical characteristics of overweight and obese children during five different walking and running velocities. <i>Footwear Science</i> , 2017, 9, 149-159.	2.1	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.	1.5	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.	0.6	10
66	The effect of irradiation time on the shear strength of composites. <i>Dental Materials</i> , 1994, 10, 338-342.	3.5	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.	2.8	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.	1.7	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.	3.5	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.	1.5	9
71	Colchicine inhibits fracture union and reduces bone strength "in vivo study. <i>Journal of Orthopaedic Research</i> , 2005, 23, 877-881.	2.3	8
72	Effect of root morphology on the susceptibility of endodontically treated teeth to vertical root fracture: An ex-vivo model. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 69, 267-274.	3.1	8

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73	The effect of impact tool geometry and soft material covering on long bone fracture patterns in children. International Journal of Legal Medicine, 2017, 131, 1011-1021.	2.2	8
74	Biomechanical evaluation of two arthroscopic techniques for biceps tenodesis: triple loop suture versus simple suture. Journal of Shoulder and Elbow Surgery, 2017, 26, 165-169.	2.6	8
75	Effect of Silane Reaction Time on the Repair of a Nanofilled Composite Using Tribochemical Treatment. Journal of Adhesive Dentistry, 2016, 18, 125-34.	0.5	8
76	Long-term durability of adhesive systems bonded to fresh amalgam. Journal of Prosthetic Dentistry, 1996, 76, 431-436.	2.8	7
77	Does Augmented Visual Feedback from Novel, Multicolored, Threeâ€Dimensionalâ€Printed Teeth Affect Dental Students' Acquisition of Manual Skills?. Anatomical Sciences Education, 2020, 14, 629-640.	3.7	6
78	Shear modulusâ€”Measurement methodology with application to light-cured resin composites. Dental Materials, 1996, 12, 52-57.	3.5	5
79	Tensile Mechanical Properties of Swine Cortical Mandibular Bone. PLoS ONE, 2014, 9, e113229.	2.5	5
80	Fixation of humeral surgical neck fracture using contoured pins versus straight pins: a mechanical study. International Orthopaedics, 2007, 31, 811-815.	1.9	4
81	In vivo laser soldering of incisions in juvenile pig skins using GaAs or CO 2 lasers and a temperature control system. , 2004, , .		3
82	Strain Distribution in Root Surface Dentin of Maxillary Central Incisors during Lateral Compaction. PLoS ONE, 2016, 11, e0156461.	2.5	3
83	3D-Printed Teeth with Multicolored Layers as a Tool for Evaluating Cavity Preparation by Dental Students. Applied Sciences (Switzerland), 2021, 11, 6406.	2.5	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. Applied Sciences (Switzerland), 2021, 11, 9387.	2.5	1
87	Effects of Aging Torque Controllers on Screw Tightening Force and Bacterial Micro-Leakage on the Implant-Abutment Complex. Materials, 2022, 15, 620.	2.9	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. Current Orthopaedic Practice, 2013, 24, 647-650.	0.2	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. Biology, 2021, 10, 1203.	2.8	0
93	Influence of Practitioner-Related Placement Variables on the Compressive Properties of Bulk-Fill Composite Resinsâ€”An In Vitro Clinical Simulation Study. Materials, 2022, 15, 4305.	2.9	0