

Zvi Schwartz

List of Publications by Year in descending order

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115
papers

5,452
citations

126708

33
h-index

91712

69
g-index

116
all docs

116
docs citations

116
times ranked

7192
citing authors

#	ARTICLE	IF	CITATIONS
1	A review on the wettability of dental implant surfaces II: Biological and clinical aspects. Acta Biomaterialia, 2014, 10, 2907-2918.	4.1	607
2	Titanium surface characteristics, including topography and wettability, alter macrophage activation. Acta Biomaterialia, 2016, 31, 425-434.	4.1	471
3	A review on the wettability of dental implant surfaces I: Theoretical and experimental aspects. Acta Biomaterialia, 2014, 10, 2894-2906.	4.1	356
4	Implant osseointegration and the role of microroughness and nanostructures: Lessons for spine implants. Acta Biomaterialia, 2014, 10, 3363-3371.	4.1	344
5	Underlying mechanisms at the bone-biomaterial interface.. Journal of Cellular Biochemistry, 1994, 56, 340-347.	1.2	332
6	Mechanisms Involved in Osteoblast Response to Implant Surface Morphology. Annual Review of Materials Research, 2001, 31, 357-371.	4.3	171
7	Advances in Porous Scaffold Design for Bone and Cartilage Tissue Engineering and Regeneration. Tissue Engineering - Part B: Reviews, 2019, 25, 14-29.	2.5	166
8	Substrate Stiffness Controls Osteoblastic and Chondrocytic Differentiation of Mesenchymal Stem Cells without Exogenous Stimuli. PLoS ONE, 2017, 12, e0170312.	1.1	157
9	<sup />Roughness and Hydrophilicity as Osteogenic Biomimetic Surface Properties. Tissue Engineering - Part A, 2017, 23, 1479-1489.	1.6	107
10	Nongenomic regulation of protein kinase C isoforms by the vitamin D metabolites 1 α ,25-(OH)2D3 and 24R,25-(OH)2D3. , 1996, 167, 380-393.		95
11	Role of integrin subunits in mesenchymal stem cell differentiation and osteoblast maturation on graphitic carbon-coated microstructured surfaces. Biomaterials, 2015, 51, 69-79.	5.7	86
12	Improving the Accuracy of Hotel Reservations Forecasting: Curves Similarity Approach. Journal of Travel Research, 1997, 36, 3-14.	5.8	84
13	Activation of Latent Transforming Growth Factor β 1 by Stromelysin 1 in Extracts of Growth Plate Chondrocyte-Derived Matrix Vesicles. Journal of Bone and Mineral Research, 2001, 16, 1281-1290.	3.1	84
14	Platelet-Derived Growth Factor Inhibits Demineralized Bone Matrix-Induced Intramuscular Cartilage and Bone Formation. Journal of Bone and Joint Surgery - Series A, 2005, 87, 2052-2064.	1.4	82
15	Rapid steroid hormone actions via membrane receptors. Biochimica Et Biophysica Acta - Molecular Cell Research, 2016, 1863, 2289-2298.	1.9	80
16	Osteogenic response of human MSCs and osteoblasts to hydrophilic and hydrophobic nanostructured titanium implant surfaces. Journal of Biomedical Materials Research - Part A, 2016, 104, 3137-3148.	2.1	71
17	Regulation of osteoclasts by osteoblast lineage cells depends on titanium implant surface properties. Acta Biomaterialia, 2018, 68, 296-307.	4.1	68
18	Vitamin D Regulation of Metal Ioproteinase Activity in Matrix Vesicles. Connective Tissue Research, 1996, 35, 331-336.	1.1	64

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19	Mechanical stiffness as an improved single-cell indicator of osteoblastic human mesenchymal stem cell differentiation. <i>Journal of Biomechanics</i> , 2014, 47, 2197-2204.	0.9	61
20	Novel hydrophilic nanostructured microtexture on direct metal laser sintered Ti-6Al-4V surfaces enhances osteoblast response <i>in vitro</i> and osseointegration in a rabbit model. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 2086-2098.	2.1	59
21	Revenue Management: Progress, Challenges, and Research Prospects. <i>Journal of Travel and Tourism Marketing</i> , 2015, 32, 797-811.	3.1	58
22	Advanced booking and revenue management: Room rates and the consumers' strategic zones. <i>International Journal of Hospitality Management</i> , 2006, 25, 447-462.	5.3	56
23	Membrane-mediated actions of 1,25-dihydroxy vitamin D3: A review of the roles of phospholipase A2 activating protein and Ca ²⁺ /calmodulin-dependent protein kinase II. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2015, 147, 81-84.	1.2	51
24	Hotel daily occupancy forecasting with competitive sets: a recursive algorithm. <i>International Journal of Contemporary Hospitality Management</i> , 2016, 28, 267-285.	5.3	51
25	Selective enrichment of microRNAs in extracellular matrix vesicles produced by growth plate chondrocytes. <i>Bone</i> , 2016, 88, 47-55.	1.4	48
26	Role of ER α 36 in membrane-associated signaling by estrogen. <i>Steroids</i> , 2014, 81, 74-80.	0.8	42
27	Galectin-1 promotes an M2 macrophage response to polydioxanone scaffolds. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 2562-2571.	2.1	40
28	On revenue management and last minute booking dynamics. <i>International Journal of Contemporary Hospitality Management</i> , 2013, 25, 7-22.	5.3	38
29	On revenue management and the use of occupancy forecasting error measures. <i>International Journal of Hospitality Management</i> , 2014, 41, 104-114.	5.3	37
30	Laser Sintered Porous Ti-6Al-4V Implants Stimulate Vertical Bone Growth. <i>Annals of Biomedical Engineering</i> , 2017, 45, 2025-2035.	1.3	37
31	Change in surface roughness by dynamic shape-memory acrylate networks enhances osteoblast differentiation. <i>Biomaterials</i> , 2016, 110, 34-44.	5.7	36
32	Inhibition of cyclooxygenase by indomethacin modulates osteoblast response to titanium surface roughness in a time-dependent manner. <i>Clinical Oral Implants Research</i> , 2001, 12, 52-61.	1.9	34
33	Estrogen receptor-alpha 36 mediates the anti-apoptotic effect of estradiol in triple negative breast cancer cells via a membrane-associated mechanism. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2014, 1843, 2796-2806.	1.9	34
34	Coordinated regulation of mesenchymal stem cell differentiation on microstructured titanium surfaces by endogenous bone morphogenetic proteins. <i>Bone</i> , 2015, 73, 208-216.	1.4	34
35	Hydrogels derived from cartilage matrices promote induction of human mesenchymal stem cell chondrogenic differentiation. <i>Acta Biomaterialia</i> , 2016, 43, 139-149.	4.1	34
36	Comparable responses of osteoblast lineage cells to microstructured hydrophilic titanium-zirconium and microstructured hydrophilic titanium. <i>Clinical Oral Implants Research</i> , 2017, 28, e51-e59.	1.9	34

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37	Decellularized Muscle Supports New Muscle Fibers and Improves Function Following Volumetric Injury. <i>Tissue Engineering - Part A</i> , 2018, 24, 1228-1241.	1.6	33
38	Matrix Vesicles as a Marker of Endochondral Ossification. <i>Connective Tissue Research</i> , 1990, 24, 67-75.	1.1	31
39	New insights on membrane mediated effects of 1 α ,25-dihydroxy vitamin D3 signaling in the musculoskeletal system. <i>Steroids</i> , 2014, 81, 81-87.	0.8	30
40	Signaling components of the 1 α ,25(OH)2D3-dependent Pdia3 receptor complex are required for Wnt5a calcium-dependent signaling. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2014, 1843, 2365-2375.	1.9	30
41	Spag17 Deficiency Results in Skeletal Malformations and Bone Abnormalities. <i>PLoS ONE</i> , 2015, 10, e0125936.	1.1	30
42	24R,25-Dihydroxyvitamin D3 Protects against Articular Cartilage Damage following Anterior Cruciate Ligament Transection in Male Rats. <i>PLoS ONE</i> , 2016, 11, e0161782.	1.1	30
43	Characterization of osteoarthritic human knees indicates potential sex differences. <i>Biology of Sex Differences</i> , 2016, 7, 27.	1.8	30
44	A review of 1 α ,25(OH)2D3 dependent Pdia3 receptor complex components in Wnt5a non-canonical pathway signaling. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2015, 152, 84-88.	1.2	29
45	Laser-Sintered Constructs with Bio-inspired Porosity and Surface Micro/Nano-Roughness Enhance Mesenchymal Stem Cell Differentiation and Matrix Mineralization In Vitro. <i>Calcified Tissue International</i> , 2016, 99, 625-637.	1.5	29
46	Membrane actions of 1 α ,25(OH)2D3 are mediated by Ca ²⁺ /calmodulin-dependent protein kinase II in bone and cartilage cells. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2015, 145, 65-74.	1.2	28
47	MicroRNA Contents in Matrix Vesicles Produced by Growth Plate Chondrocytes are Cell Maturation Dependent. <i>Scientific Reports</i> , 2018, 8, 3609.	1.6	27
48	Osteoblasts grown on microroughened titanium surfaces regulate angiogenic growth factor production through specific integrin receptors. <i>Acta Biomaterialia</i> , 2019, 97, 578-586.	4.1	27
49	Regulation of mesenchymal stem cell differentiation on microstructured titanium surfaces by semaphorin 3A. <i>Bone</i> , 2020, 134, 115260.	1.4	27
50	Enhanced Osteoblast Response to Porosity and Resolution of Additively Manufactured Ti-6Al-4V Constructs with Trabeculae-Inspired Porosity. <i>3D Printing and Additive Manufacturing</i> , 2016, 3, 10-21.	1.4	26
51	Integrin- α 7 signaling regulates connexin 43, M-cadherin, and myoblast fusion. <i>American Journal of Physiology - Cell Physiology</i> , 2019, 316, C876-C887.	2.1	25
52	VEGF β regulates angiogenesis during osseointegration of Ti implants via paracrine/autocrine regulation of osteoblast response to hierarchical microstructure of the surface. <i>Journal of Biomedical Materials Research - Part A</i> , 2019, 107, 423-433.	2.1	25
53	Role of integrin α 7 β 1 signaling in myoblast differentiation on aligned polydioxanone scaffolds. <i>Acta Biomaterialia</i> , 2016, 39, 44-54.	4.1	24
54	Bone Morphogenetic Protein 2 Alters Osteogenesis and Anti-Inflammatory Profiles of Mesenchymal Stem Cells Induced by Microtextured Titanium <i>In Vitro</i> . <i>Tissue Engineering - Part A</i> , 2017, 23, 1132-1141.	1.6	24

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55	Role of Wnt11 during Osteogenic Differentiation of Human Mesenchymal Stem Cells on Microstructured Titanium Surfaces. <i>Scientific Reports</i> , 2018, 8, 8588.	1.6	24
56	Aptamer-Functionalized Fibrin Hydrogel Improves Vascular Endothelial Growth Factor Release Kinetics and Enhances Angiogenesis and Osteogenesis in Critically Sized Cranial Defects. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 6152-6160.	2.6	23
57	Revenue management forecasting: The resiliency of advanced booking methods given dynamic booking windows. <i>International Journal of Hospitality Management</i> , 2020, 89, 102590.	5.3	23
58	Advanced Glycation End-Products in Skeletal Muscle Aging. <i>Bioengineering</i> , 2021, 8, 168.	1.6	22
59	A-ring analogues of 1,25-(OH) ₂ D ₃ with low affinity for the vitamin D receptor modulate chondrocytes via membrane effects that are dependent on cell maturation. , 1997, 171, 357-367.		21
60	Subjective Estimates of Occupancy Forecast Uncertainty by Hotel Revenue Managers. <i>Journal of Travel and Tourism Marketing</i> , 2004, 16, 59-66.	3.1	21
61	Revenue Management and Length-of-Stay-Based Room Pricing. <i>Cornell Hospitality Quarterly</i> , 2017, 58, 393-399.	2.2	21
62	Titanium implant surface properties enhance osseointegration in ovariectomy induced osteoporotic rats without pharmacologic intervention. <i>Clinical Oral Implants Research</i> , 2020, 31, 374-387.	1.9	21
63	Hedonic Motivations and the Effectiveness of Risk Perceptionsâ€œOriented Revenue Management Policies. <i>Journal of Hospitality and Tourism Research</i> , 2012, 36, 232-250.	1.8	20
64	Human osteoblasts exhibit sexual dimorphism in their response to estrogen on microstructured titanium surfaces. <i>Biology of Sex Differences</i> , 2018, 9, 30.	1.8	20
65	Performance measures for strategic revenue management: RevPAR versus GOPPAR. <i>Journal of Revenue and Pricing Management</i> , 2017, 16, 357-375.	0.7	19
66	Impaired Bone Formation in Pdia3 Deficient Mice. <i>PLoS ONE</i> , 2014, 9, e112708.	1.1	19
67	Accuracy of computerâ€œguided implantation in a human cadaver model. <i>Clinical Oral Implants Research</i> , 2015, 26, 1143-1149.	1.9	18
68	Surface modification of bulk titanium substrates for biomedical applications via lowâ€œtemperature microwave hydrothermal oxidation. <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 782-796.	2.1	16
69	Hotel Revenue Management With Group Discount Room Rates. <i>Journal of Hospitality and Tourism Research</i> , 2003, 27, 24-47.	1.8	15
70	Inhibition of angiogenesis impairs bone healing in an <i>in vivo</i> murine rapid resynostosis model. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 2742-2749.	2.1	15
71	Bisphosphonates inhibit surfaceâ€œmediated osteogenesis. <i>Journal of Biomedical Materials Research - Part A</i> , 2020, 108, 1774-1786.	2.1	15
72	A Review of Biomimetic Topographies and Their Role in Promoting Bone Formation and Osseointegration: Implications for Clinical Use. <i>Biomimetics</i> , 2022, 7, 46.	1.5	15

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73	Microencapsulation of Stem Cells for Therapy. <i>Methods in Molecular Biology</i> , 2017, 1479, 251-259.	0.4	14
74	24R,25-Dihydroxyvitamin D3 regulates breast cancer cells in vitro and in vivo. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2019, 1863, 1498-1512.	1.1	14
75	The Role of Matrix-Bound Extracellular Vesicles in the Regulation of Endochondral Bone Formation. <i>Cells</i> , 2022, 11, 1619.	1.8	14
76	Regulation of Osteoblast Differentiation by Acid-Etched and/or Grit-Blasted Titanium Substrate Topography Is Enhanced by 1,25(OH) ₂ D ₃ in a Sex-Dependent Manner. <i>BioMed Research International</i> , 2015, 2015, 1-9.	0.9	13
77	Estrogen signaling and estrogen receptors as prognostic indicators in laryngeal cancer. <i>Steroids</i> , 2019, 152, 108498.	0.8	13
78	Loss of Estrogen Receptors is Associated with Increased Tumor Aggression in Laryngeal Squamous Cell Carcinoma. <i>Scientific Reports</i> , 2020, 10, 4227.	1.6	13
79	Specific MicroRNAs Found in Extracellular Matrix Vesicles Regulate Proliferation and Differentiation in Growth Plate Chondrocytes. <i>Calcified Tissue International</i> , 2021, 109, 455-468.	1.5	13
80	In vivo evaluation of an electrospun and 3D printed cellular delivery device for dermal wound healing. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020, 108, 2560-2570.	1.6	12
81	Benchtop plasma treatment of titanium surfaces enhances cell response. <i>Dental Materials</i> , 2021, 37, 690-700.	1.6	12
82	Osteogenic Embryoid Body-Derived Material Induces Bone Formation In Vivo. <i>Scientific Reports</i> , 2015, 5, 9960.	1.6	11
83	Effects of Tunable Keratin Hydrogel Erosion on Recombinant Human Bone Morphogenetic Protein 2 Release, Bioactivity, and Bone Induction. <i>Tissue Engineering - Part A</i> , 2018, 24, 1616-1630.	1.6	11
84	Regulation of extracellular matrix vesicles via rapid responses to steroid hormones during endochondral bone formation. <i>Steroids</i> , 2019, 142, 43-47.	0.8	11
85	Enhancing the accuracy of revenue management system forecasts: The impact of machine and human learning on the effectiveness of hotel occupancy forecast combinations across multiple forecasting horizons. <i>Tourism Economics</i> , 2021, 27, 273-291.	2.6	11
86	Effects of low-frequency ultrasound treatment of titanium surface roughness on osteoblast phenotype and maturation. <i>Clinical Oral Implants Research</i> , 2017, 28, e151-e158.	1.9	10
87	Revenue management analysis with competitive sets. <i>Tourism Economics</i> , 2017, 23, 1206-1219.	2.6	10
88	Differential Effects of Neurectomy and Botox-induced Muscle Paralysis on Bone Phenotype and Titanium Implant Osseointegration. <i>Bone</i> , 2021, 153, 116145.	1.4	10
89	Characterization of Distinct Classes of Differential Gene Expression in Osteoblast Cultures from Non-Syndromic Craniosynostosis Bone. <i>Journal of Genomics</i> , 2014, 2, 121-130.	0.6	9
90	Estradiol receptor profile and estrogen responsiveness in laryngeal cancer and clinical outcomes. <i>Steroids</i> , 2019, 142, 34-42.	0.8	9

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91	Growth factors produced by bone marrow stromal cells on nanoroughened titanium-aluminum-vanadium surfaces program distal MSCs into osteoblasts via BMP2 signaling. <i>Journal of Orthopaedic Research</i> , 2020, 39, 1908-1920.	1.2	9
92	Microencapsulated rabbit adipose stem cells initiate tissue regeneration in a rabbit ear defect model. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, 1742-1753.	1.3	8
93	24R,25-dihydroxyvitamin D3 modulates tumorigenicity in breast cancer in an estrogen receptor-dependent manner. <i>Steroids</i> , 2019, 150, 108447.	0.8	8
94	Resource Similarity, Market Commonality, and Spatial Distribution of Hotel Competitive Sets. <i>Journal of Hospitality and Tourism Research</i> , 2022, 46, 724-741.	1.8	8
95	Advanced Glycation End Products Are Retained in Decellularized Muscle Matrix Derived from Aged Skeletal Muscle. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8832.	1.8	8
96	RNU (Foxn1RNU-Nude) Rats Demonstrate an Improved Ability to Regenerate Muscle in a Volumetric Muscle Injury Compared to Sprague Dawley Rats. <i>Bioengineering</i> , 2021, 8, 12.	1.6	8
97	Expression and production of stathmin in growth plate chondrocytes is cell-maturation dependent. <i>Journal of Cellular Biochemistry</i> , 2000, 79, 150-163.	1.2	7
98	Who's hiding? Room rate discounts in opaque distribution channels. <i>International Journal of Hospitality Management</i> , 2019, 80, 113-122.	5.3	7
99	Acellular mineralized allogenic block bone graft does not remodel during the 10 weeks following concurrent implant placement in a rabbit femoral model. <i>Clinical Oral Implants Research</i> , 2020, 31, 37-48.	1.9	7
100	Production of osteogenic and angiogenic factors by microencapsulated adipose stem cells varies with culture conditions. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020, 108, 1857-1867.	1.6	7
101	Hotel revenue management forecasting accuracy: the hidden impact of booking windows. <i>Journal of Hospitality and Tourism Insights</i> , 2022, 5, 950-965.	2.2	7
102	Adipose Stem Cell Microbeads as Production Sources for Chondrogenic Growth Factors. <i>Journal of Stem Cells and Regenerative Medicine</i> , 2014, 10, 38-48.	2.2	7
103	From OTA interface design to hotels' revenues: the impact of sorting and filtering functionalities on consumer choices. <i>Journal of Revenue and Pricing Management</i> , 2017, 16, 125-138.	0.7	6
104	Do I book at exactly the right time? Airfare forecast accuracy across three price-prediction platforms. <i>Journal of Revenue and Pricing Management</i> , 2019, 18, 281-290.	0.7	6
105	miR-122 and the Wnt/catenin pathway inhibit effects of both interleukin-1 β and tumor necrosis factor- α in articular chondrocytes in vitro. <i>Journal of Cellular Biochemistry</i> , 2022, , .	1.2	6
106	Effect of 17 β -estradiol on estrogen receptor negative breast cancer cells in an osteolytic mouse model. <i>Steroids</i> , 2019, 142, 28-33.	0.8	5
107	Hot isostatic pressure treatment of 3D printed Ti6Al4V alters surface modifications and cellular response. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020, 108, 1262-1273.	1.6	5
108	The Relative Expression of ER α Isoforms ER α 66 and ER α 36 Controls the Cellular Response to 24R,25-Dihydroxyvitamin D3 in Breast Cancer. <i>Molecular Cancer Research</i> , 2021, 19, 99-111.	1.5	5

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109	Platelet-rich plasma and alignment enhance myogenin via ERK mitogen activated protein kinase signaling. <i>Biomedical Materials (Bristol)</i> , 2018, 13, 055009.	1.7	4
110	A paradigm shift in revenue management? The new landscape of hotel cancellation policies. <i>Journal of Revenue and Pricing Management</i> , 2019, 18, 434-440.	0.7	4
111	Sex-specific effects of 17 β -estradiol and dihydrotestosterone (DHT) on growth plate chondrocytes are dependent on both ER α and ER β and require palmitoylation to translocate the receptors to the plasma membrane. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2021, 1866, 159028.	1.2	3
112	Cell and Tissue Response to Polyethylene Terephthalate Mesh Containing Bone Allograft in Vitro and in Vivo. <i>International Journal of Spine Surgery</i> , 2020, 14, 7135.	0.7	3
113	Hydrophilic implants generated using a low-cost dielectric barrier discharge plasma device at the time of placement exhibit increased osseointegration in an animal pre-clinical study: An effect that is sex-dependent. <i>Dental Materials</i> , 2022, 38, 632-645.	1.6	3
114	Hotel Analytics: The Case for Reverse Competitive Sets. <i>Cornell Hospitality Quarterly</i> , 2022, 63, 559-571.	2.2	2
115	Risk information and markdowns-induced incentives to participate in hotel room resale schemes. <i>Journal of Revenue and Pricing Management</i> , 0, , 1.	0.7	1