

# Rachel Sammons

## List of Publications by Year in descending order

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73  
papers

2,145  
citations

218381

26  
h-index

243296

44  
g-index

73  
all docs

73  
docs citations

73  
times ranked

2856  
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct laser metal sintering as a new approach to fabrication of an isoelastic functionally graded material for manufacture of porous titanium dental implants. <i>Dental Materials</i> , 2008, 24, 1525-1533.	1.6	357
2	Comparison of osteoblast spreading on microstructured dental implant surfaces and cell behaviour in an explant model of osseointegration. <i>Clinical Oral Implants Research</i> , 2005, 16, 657-666.	1.9	139
3	Towards long-lasting antibacterial stainless steel surfaces by combining double glow plasma silvering with active screen plasma nitriding. <i>Acta Biomaterialia</i> , 2011, 7, 447-457.	4.1	91
4	Effect of pH on protein adsorption to hydroxyapatite and tricalcium phosphate ceramics. <i>Biomaterials</i> , 1997, 18, 471-476.	5.7	79
5	Adherence of oral streptococci to nanostructured titanium surfaces. <i>Dental Materials</i> , 2015, 31, 1460-1468.	1.6	75
6	Custom-made, root-analogue direct laser metal forming implant: a case report. <i>Lasers in Medical Science</i> , 2012, 27, 1241-1245.	1.0	65
7	Survival and Complication Rates of Fixed Restorations Supported by Locking Taper Implants: A Prospective Study with 1 to 10 Years of Follow-up. <i>Journal of Prosthodontics</i> , 2014, 23, 434-444.	1.7	64
8	Short (8mm) locking taper implants supporting single crowns in posterior region: a prospective clinical study with 1 to 10 years of follow-up. <i>Clinical Oral Implants Research</i> , 2014, 25, 933-940.	1.9	62
9	A quantitative method to measure biofilm removal efficiency from complex biomaterial surfaces using SEM and image analysis. <i>Scientific Reports</i> , 2016, 6, 32694.	1.6	62
10	Histologic and Elemental Microanalytical Study of Anorganic Bovine Bone Substitution Following Sinus Floor Augmentation in Humans. <i>Journal of Periodontology</i> , 2008, 79, 1232-1240.	1.7	54
11	Stereo imaging and cytocompatibility of a model dental implant surface formed by direct laser fabrication. <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 88A, 823-831.	2.1	52
12	Which Parameters Affect Biofilm Removal with Acoustic Cavitation? A Review. <i>Ultrasound in Medicine and Biology</i> , 2019, 45, 1044-1055.	0.7	52
13	Isolation and characterization of subgingival staphylococci from periodontitis patients and controls. <i>Oral Diseases</i> , 2004, 10, 155-162.	1.5	50
14	Prospective Evaluation of 2,549 Morse Taper Connection Implants: 1- to 6-Year Data. <i>Journal of Periodontology</i> , 2011, 82, 52-61.	1.7	50
15	Morse taper connection implants supporting planned maxillary and mandibular bar-retained overdentures: a 5-year prospective multicenter study. <i>Clinical Oral Implants Research</i> , 2011, 22, 1117-1124.	1.9	49
16	A novel non line-of-sight method for coating hydroxyapatite onto the surfaces of support materials by biomineralization. <i>Journal of Biotechnology</i> , 2005, 118, 187-200.	1.9	47
17	Single-tooth Morse taper connection implants placed in fresh extraction sockets of the anterior maxilla: an aesthetic evaluation. <i>Clinical Oral Implants Research</i> , 2012, 23, 1302-1307.	1.9	47
18	Esthetic Evaluation of Single-Tooth Morse Taper Connection Implants Placed in Fresh Extraction Sockets or Healed Sites. <i>Journal of Oral Implantology</i> , 2013, 39, 172-181.	0.4	38

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19	An <i>In Vitro</i> Comparison of the Incorporation, Growth, and Chondrogenic Potential of Human Bone Marrow versus Adipose Tissue Mesenchymal Stem Cells in Clinically Relevant Cell Scaffolds Used for Cartilage Repair. <i>Cartilage</i> , 2015, 6, 252-263.	1.4	37
20	Thyroid hormone, vitamin D and retinoid receptor expression and signalling in primary cultures of rat osteoblastic and immortalised osteosarcoma cells. <i>Journal of Endocrinology</i> , 1997, 154, 63-74.	1.2	32
21	Biofilm formation on polyetheretherketone and titanium surfaces. <i>Clinical and Experimental Dental Research</i> , 2019, 5, 427-437.	0.8	32
22	Backscattered electron imaging and elemental analysis of retrieved bone tissue following sinus augmentation with deproteinized bovine bone or biphasic calcium phosphate. <i>Clinical Oral Implants Research</i> , 2010, 21, 924-930.	1.9	29
23	Evaluation of the biocompatibility of S-phase layers on medical grade austenitic stainless steels. <i>Journal of Materials Science: Materials in Medicine</i> , 2011, 22, 1269-1278.	1.7	29
24	High Speed Imaging of Cavitation around Dental Ultrasonic Scaler Tips. <i>PLoS ONE</i> , 2016, 11, e0149804.	1.1	29
25	A review of co-culture models to study the oral microenvironment and disease. <i>Journal of Oral Microbiology</i> , 2020, 12, 1773122.	1.2	29
26	Synthesis of nanophase hydroxyapatite by a <i>Serratia</i> sp. from waste-water containing inorganic phosphate. <i>Biotechnology Letters</i> , 2004, 26, 1723-1730.	1.1	28
27	Response of Saos-2 osteoblast-like cells to laser surface texturing, sandblasting and hydroxyapatite coating on CoCrMo alloy surfaces. <i>Materials Science and Engineering C</i> , 2019, 98, 1005-1013.	3.8	27
28	Immediate Restoration of Fixed Partial Prostheses Supported by One-Piece Narrow-Diameter Selective Laser Sintering Implants. <i>Implant Dentistry</i> , 2013, 22, 388-393.	1.7	26
29	How does ultrasonic cavitation remove dental bacterial biofilm?. <i>Ultrasonics Sonochemistry</i> , 2020, 67, 105112.	3.8	26
30	Imaging and analysis of individual cavitation microbubbles around dental ultrasonic scalers. <i>Ultrasonics</i> , 2017, 81, 66-72.	2.1	24
31	Biofilm formation on bone-anchored hearing aids. <i>Journal of Laryngology and Otology</i> , 2011, 125, 1125-1130.	0.4	23
32	Application of the low vacuum scanning electron microscope to the study of biomaterials and mammalian cells. <i>Biomaterials</i> , 1997, 18, 81-86.	5.7	21
33	Bacterial biosynthesis of a calcium phosphate bone-substitute material. <i>Journal of Materials Science: Materials in Medicine</i> , 2004, 15, 403-406.	1.7	21
34	Backscattered electron imaging and elemental microanalysis of retrieved bone tissue following maxillary sinus floor augmentation with calcium sulphate. <i>Clinical Oral Implants Research</i> , 2008, 19, 814-822.	1.9	20
35	Use of enhanced chemiluminescence to quantify protein adsorption to calcium phosphate materials and microcarrier beads. <i>Biomaterials</i> , 1994, 15, 842-847.	5.7	19
36	Microstructure and composition of biosynthetically synthesised hydroxyapatite. <i>Journal of Materials Science: Materials in Medicine</i> , 2008, 19, 3419-3427.	1.7	18

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37	Molecular genetical and phenotypical analysis of the gerM spore germination gene of <i>Bacillus subtilis</i> 168. <i>FEMS Microbiology Letters</i> , 1994, 121, 315-320.	0.7	16
38	Maxillary sinus augmentation with adult mesenchymal stem cells: a review of the current literature. <i>Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology</i> , 2013, 115, 717-723.	0.2	15
39	Human adipose tissue-derived mesenchymal stem/stromal cells adhere to and inhibit the growth of <i>Staphylococcus aureus</i> and <i>Pseudomonas aeruginosa</i> . <i>Journal of Medical Microbiology</i> , 2018, 67, 1789-1795.	0.7	15
40	Improving the Tribological Properties and Biocompatibility of Zr-Based Bulk Metallic Glass for Potential Biomedical Applications. <i>Materials</i> , 2020, 13, 1960.	1.3	13
41	Novel culture procedure permitting the synthesis of proteins by rat calvarial cells cultured on hydroxyapatite particles to be quantified. <i>Biomaterials</i> , 1994, 15, 536-542.	5.7	12
42	Improving tribological and anti-bacterial properties of titanium external fixation pins through surface ceramic conversion. <i>Journal of Materials Science: Materials in Medicine</i> , 2017, 28, 5.	1.7	12
43	High speed imaging of biofilm removal from a dental implant model using ultrasonic cavitation. <i>Dental Materials</i> , 2020, 36, 733-743.	1.6	12
44	A study on the effect of ultrashort pulsed laser texturing on the microstructure and properties of metastable S phase layer formed on AISI 316L surfaces. <i>Applied Surface Science</i> , 2020, 511, 145557.	3.1	11
45	Fluid Exudates From Inflamed Bone-Anchored Hearing Aids Demonstrate Elevated Levels of Cytokines and Biomarkers of Tissue and Bone Metabolism. <i>Otology and Neurotology</i> , 2010, 31, 433-439.	0.7	10
46	Chromatography of carbon nanotubes separated albumin from other serum proteins: a method for direct analysis of their interactions. <i>Dental Materials Journal</i> , 2010, 29, 369-373.	0.8	10
47	The generation of wear-resistant antimicrobial stainless steel surfaces by active screen plasma alloying with N and nanocrystalline Ag. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2010, 93B, 185-193.	1.6	10
48	Bone regeneration in sinus augmentation procedures with calcium sulphate. Microstructure and microanalytical investigations. <i>Australian Dental Journal</i> , 2012, 57, 200-206.	0.6	9
49	Bone enhancing effect of titanium-binding proteins isolated from bovine bone and implanted into rat calvaria with titanium scaffold. <i>Bio-Medical Materials and Engineering</i> , 2014, 24, 1539-1548.	0.4	9
50	Microbial contamination of light curing units: a pilot study. <i>Journal of Infection Prevention</i> , 2010, 11, 217-221.	0.5	8
51	Effects of laser processing conditions on wettability and proliferation of Saos-2 cells on CoCrMo alloy surfaces. <i>Advanced Optical Technologies</i> , 2020, 9, 67-78.	0.9	8
52	The performance characteristics of a piezoelectric ultrasonic dental scaler. <i>Medical Engineering and Physics</i> , 2016, 38, 199-203.	0.8	7
53	Synthesis and in-vitro antibacterial properties of a functionally graded Ag impregnated composite surface. <i>Materials Science and Engineering C</i> , 2019, 99, 150-158.	3.8	7
54	The Influence of Surface Treatment by Hydrogenation on the Biocompatibility of Different Hydroxyapatite Materials. <i>IOP Conference Series: Materials Science and Engineering</i> , 2011, 23, 012032.	0.3	6

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55	The effect of standoff distance and surface roughness on biofilm disruption using cavitation. PLoS ONE, 2020, 15, e0236428.	1.1	6
56	Interaction between titanium and phosphoproteins revealed by chromatography column packed with titanium beads. Bio-Medical Materials and Engineering, 2012, 22, 283-288.	0.4	5
57	Histochemical, immunohistological and scanning electron microscope analysis of tissue retained on spontaneously extruded ventilation tubes. Journal of Laryngology and Otology, 2002, 116, 333-9.	0.4	4
58	Three-dimensional Geometry of Honeycomb Collagen Promotes Higher Beating Rate of Myocardial Cells in Culture. Artificial Organs, 2012, 36, 816-819.	1.0	4
59	The deposition and imaging of silica sub-micron particles in dentine. Journal of Dentistry, 2015, 43, 1242-1248.	1.7	4
60	Penetration of sub-micron particles into dentinal tubules using ultrasonic cavitation. Journal of Dentistry, 2017, 56, 112-120.	1.7	4
61	Backscattered electron imaging and electron backscattered diffraction in the study of bacterial attachment to titanium alloy structure. Journal of Microscopy, 2018, 270, 53-63.	0.8	4
62	Are computer keyboards a cross-infection risk in a dental clinic?. Journal of Infection Prevention, 2010, 11, 206-211.	0.5	3
63	Development and characterisation of novel anti-bacterial S-phase based coatings. Thin Solid Films, 2017, 644, 71-81.	0.8	3
64	Phosphorylated chitin increased bone formation when implanted into rat calvaria with the Ti-device. Bio-Medical Materials and Engineering, 2020, 31, 47-57.	0.4	3
65	Hydroxyapatite synthesis on solid surfaces using a biological approach. Journal of Physics: Conference Series, 2012, 398, 012005.	0.3	2
66	Bacterially Derived Nanomaterials and Enzyme-Driven Lipid-Associated Metallic Particle Catalyst Formation. Behavior Research Methods, 2013, 18, 237-261.	2.3	2
67	Binding of collagen gene products with titanium oxide. Journal of Biochemistry, 2021, 169, 565-573.	0.9	2
68	Optimal Diameter of Honeycomb Tunnel Structure induces Bone Regeneration and Metabolism by Promoting Angiogenesis for an Implant Circumference Bone Defect. Journal of Hard Tissue Biology, 2013, 22, 409-418.	0.2	2
69	Control of Dental Plaque. , 2005, , 221-254.		1
70	Honeycomb form $\beta$ -tricalcium phosphate induces osteogenesis by geometrical property with BMSC. Bio-Medical Materials and Engineering, 2011, 21, 291-306.	0.4	1
71	Efficacy of cling film for barrier protection in a dental clinical environment: short communication. Journal of Infection Prevention, 2011, 12, 60-63.	0.5	1
72	Development of tissue engineered ligaments with titanium spring reinforcement. RSC Advances, 2016, 6, 98536-98544.	1.7	1

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73	Preclinical Validation of a Novel Device Designed to Reduce Biofilms on Percutaneous Osseointegrated Abutments. <i>Otology and Neurotology</i> , 2019, 40, 1116-1123.	0.7	0