## **Rachel Sammons**

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Binding of collagen gene products with titanium oxide. Journal of Biochemistry, 2021, 169, 565-573.	1.7	2
2	Effects of laser processing conditions on wettability and proliferation of Saos-2 cells on CoCrMo alloy surfaces. Advanced Optical Technologies, 2020, 9, 67-78.	1.7	8
3	The effect of standoff distance and surface roughness on biofilm disruption using cavitation. PLoS ONE, 2020, 15, e0236428.	2.5	6
4	A review of co-culture models to study the oral microenvironment and disease. Journal of Oral Microbiology, 2020, 12, 1773122.	2.7	29
5	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. Applied Surface Science, 2020, 511, 145557.	6.1	11
6	How does ultrasonic cavitation remove dental bacterial biofilm?. Ultrasonics Sonochemistry, 2020, 67, 105112.	8.2	26
7	Phosphorylated chitin increased bone formation when implanted into rat calvaria with the Ti-device. Bio-Medical Materials and Engineering, 2020, 31, 47-57.	0.6	3
8	Improving the Tribological Properties and Biocompatibility of Zr-Based Bulk Metallic Glass for Potential Biomedical Applications. Materials, 2020, 13, 1960.	2.9	13
9	High speed imaging of biofilm removal from a dental implant model using ultrasonic cavitation. Dental Materials, 2020, 36, 733-743.	3.5	12
10	Biofilm formation on polyetheretherketone and titanium surfaces. Clinical and Experimental Dental Research, 2019, 5, 427-437.	1.9	32
11	Synthesis and in-vitro antibacterial properties of a functionally graded Ag impregnated composite surface. Materials Science and Engineering C, 2019, 99, 150-158.	7.3	7
12	Which Parameters Affect Biofilm Removal with Acoustic Cavitation? A Review. Ultrasound in Medicine and Biology, 2019, 45, 1044-1055.	1.5	52
13	Preclinical Validation of a Novel Device Designed to Reduce Biofilms on Percutaneous Osseointegrated Abutments. Otology and Neurotology, 2019, 40, 1116-1123.	1.3	0
14	Response of Saos-2 osteoblast-like cells to laser surface texturing, sandblasting and hydroxyapatite coating on CoCrMo alloy surfaces. Materials Science and Engineering C, 2019, 98, 1005-1013.	7.3	27
15	Backscattered electron imaging and electron backscattered diffraction in the study of bacterial attachment to titanium alloy structure. Journal of Microscopy, 2018, 270, 53-63.	1.8	4
16	Human adipose tissue-derived mesenchymal stem/stromal cells adhere to and inhibit the growth of Staphylococcus aureus and Pseudomonas aeruginosa. Journal of Medical Microbiology, 2018, 67, 1789-1795.	1.8	15
17	Improving tribological and anti-bacterial properties of titanium external fixation pins through surface ceramic conversion. Journal of Materials Science: Materials in Medicine, 2017, 28, 5.	3.6	12
18	Penetration of sub-micron particles into dentinal tubules using ultrasonic cavitation. Journal of Dentistry, 2017, 56, 112-120.	4.1	4

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19	Development and characterisation of novel anti-bacterial S-phase based coatings. Thin Solid Films, 2017, 644, 71-81.	1.8	3
20	Imaging and analysis of individual cavitation microbubbles around dental ultrasonic scalers. Ultrasonics, 2017, 81, 66-72.	3.9	24
21	High Speed Imaging of Cavitation around Dental Ultrasonic Scaler Tips. PLoS ONE, 2016, 11, e0149804.	2.5	29
22	A quantitative method to measure biofilm removal efficiency from complex biomaterial surfaces using SEM and image analysis. Scientific Reports, 2016, 6, 32694.	3.3	62
23	Development of tissue engineered ligaments with titanium spring reinforcement. RSC Advances, 2016, 6, 98536-98544.	3.6	1
24	The performance characteristics of a piezoelectric ultrasonic dental scaler. Medical Engineering and Physics, 2016, 38, 199-203.	1.7	7
25	Adherence of oral streptococci to nanostructured titanium surfaces. Dental Materials, 2015, 31, 1460-1468.	3.5	75
26	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. Cartilage, 2015, 6, 252-263.	2.7	37
27	The deposition and imaging of silica sub-micron particles in dentine. Journal of Dentistry, 2015, 43, 1242-1248.	4.1	4
28	Bone enhancing effect of titanium-binding proteins isolated from bovine bone and implanted into rat calvaria with titanium scaffold. Bio-Medical Materials and Engineering, 2014, 24, 1539-1548.	0.6	9
29	Short (8â€mm) lockingâ€taper implants supporting single crowns in posterior region: a prospective clinical study with 1â€to 10â€years of followâ€up. Clinical Oral Implants Research, 2014, 25, 933-940.	4.5	62
30	Survival and Complication Rates of Fixed Restorations Supported by Lockingâ€Taper Implants: A Prospective Study with 1 to 10 Years of Followâ€Up. Journal of Prosthodontics, 2014, 23, 434-444.	3.7	64
31	Maxillary sinus augmentation with adult mesenchymal stem cells: a review of the current literature. Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology, 2013, 115, 717-723.	0.4	15
32	Immediate Restoration of Fixed Partial Prostheses Supported by One-Piece Narrow-Diameter Selective Laser Sintering Implants. Implant Dentistry, 2013, 22, 388-393.	1.3	26
33	Bacterially Derived Nanomaterials and Enzyme-Driven Lipid-Associated Metallic Particle Catalyst Formation. Behavior Research Methods, 2013, 18, 237-261.	4.0	2
34	Esthetic Evaluation of Single-Tooth Morse Taper Connection Implants Placed in Fresh Extraction Sockets or Healed Sites. Journal of Oral Implantology, 2013, 39, 172-181.	1.0	38
35	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.	0.4	2
36	Hydroxyapatite synthesis on solid surfaces using a biological approach. Journal of Physics: Conference Series, 2012, 398, 012005.	0.4	2

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37	Interaction between titanium and phosphoproteins revealed by chromatography column packed with titanium beads. Bio-Medical Materials and Engineering, 2012, 22, 283-288.	0.6	5
38	Custom-made, root-analogue direct laser metal forming implant: a case report. Lasers in Medical Science, 2012, 27, 1241-1245.	2.1	65
39	Threeâ€Dimensional Geometry of Honeycomb Collagen Promotes Higher Beating Rate of Myocardial Cells in Culture. Artificial Organs, 2012, 36, 816-819.	1.9	4
40	Singleâ€tooth Morse taper connection implants placed in fresh extraction sockets of the anterior maxilla: an aesthetic evaluation. Clinical Oral Implants Research, 2012, 23, 1302-1307.	4.5	47
41	Bone regeneration in sinus augmentation procedures with calcium sulphate. Microstructure and microanaytical investigations. Australian Dental Journal, 2012, 57, 200-206.	1.5	9
42	Prospective Evaluation of 2,549 Morse Taper Connection Implants: 1- to 6-Year Data. Journal of Periodontology, 2011, 82, 52-61.	3.4	50
43	Honeycomb form β-tricalcium phosphate induces osteogenesis by geometrical property with BMSC. Bio-Medical Materials and Engineering, 2011, 21, 291-306.	0.6	1
44	Morse taper connection implants supporting "planned―maxillary and mandibular barâ€retained overdentures: a 5â€year prospective multicenter study. Clinical Oral Implants Research, 2011, 22, 1117-1124.	4.5	49
45	Evaluation of the biocompatibility of S-phase layers on medical grade austenitic stainless steels. Journal of Materials Science: Materials in Medicine, 2011, 22, 1269-1278.	3.6	29
46	Towards long-lasting antibacterial stainless steel surfaces by combining double glow plasma silvering with active screen plasma nitriding. Acta Biomaterialia, 2011, 7, 447-457.	8.3	91
47	The Influence of Surface Treatment by Hydrogenation on the Biocompatibility of Different Hydroxyapatite Materials. IOP Conference Series: Materials Science and Engineering, 2011, 23, 012032.	0.6	6
48	Efficacy of cling film for barrier protection in a dental clinical environment: short communication. Journal of Infection Prevention, 2011, 12, 60-63.	0.9	1
49	Biofilm formation on bone-anchored hearing aids. Journal of Laryngology and Otology, 2011, 125, 1125-1130.	0.8	23
50	Fluid Exudates From Inflamed Bone-Anchored Hearing Aids Demonstrate Elevated Levels of Cytokines and Biomarkers of Tissue and Bone Metabolism. Otology and Neurotology, 2010, 31, 433-439.	1.3	10
51	Chromatography of carbon nanotubes separated albumin from other serum proteins: a method for direct analysis of their interactions. Dental Materials Journal, 2010, 29, 369-373.	1.8	10
52	The generation of wearâ€resistant antimicrobial stainless steel surfaces by active screen plasma alloying with N and nanocrystalline Ag. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2010, 93B, 185-193.	3.4	10
53	Backâ€scattered electron imaging and elemental analysis of retrieved bone tissue following sinus augmentation with deproteinized bovine bone or biphasic calcium phosphate. Clinical Oral Implants Research, 2010, 21, 924-930.	4.5	29
54	Are computer keyboards a cross-infection risk in a dental clinic?. Journal of Infection Prevention, 2010, 11, 206-211.	0.9	3

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55	Microbial contamination of light curing units: a pilot study. Journal of Infection Prevention, 2010, 11, 217-221.	0.9	8
56	Stereo imaging and cytocompatibility of a model dental implant surface formed by direct laser fabrication. Journal of Biomedical Materials Research - Part A, 2009, 88A, 823-831.	4.0	52
57	Microstructure and composition of biosynthetically synthesised hydroxyapatite. Journal of Materials Science: Materials in Medicine, 2008, 19, 3419-3427.	3.6	18
58	Backâ€scattered electron imaging and elemental microanalysis of retrieved bone tissue following maxillary sinus floor augmentation with calcium sulphate. Clinical Oral Implants Research, 2008, 19, 814-822.	4.5	20
59	Direct laser metal sintering as a new approach to fabrication of an isoelastic functionally graded material for manufacture of porous titanium dental implants. Dental Materials, 2008, 24, 1525-1533.	3.5	357
60	Histologic and Elemental Microanalytical Study of Anorganic Bovine Bone Substitution Following Sinus Floor Augmentation in Humans. Journal of Periodontology, 2008, 79, 1232-1240.	3.4	54
61	Control of Dental Plaque. , 2005, , 221-254.		1
62	Comparison of osteoblast spreading on microstructured dental implant surfaces and cell behaviour in an explant model of osseointegration. Clinical Oral Implants Research, 2005, 16, 657-666.	4.5	139
63	A novel non line-of-sight method for coating hydroxyapatite onto the surfaces of support materials by biomineralization. Journal of Biotechnology, 2005, 118, 187-200.	3.8	47
64	Bacterial biosynthesis of a calcium phosphate bone-substitute material. Journal of Materials Science: Materials in Medicine, 2004, 15, 403-406.	3.6	21
65	Synthesis of nanophase hydroxyapatite by a Serratia sp. from waste-water containing inorganic phosphate. Biotechnology Letters, 2004, 26, 1723-1730.	2.2	28
66	Isolation and characterization of subgingival staphylococci from periodontitis patients and controls. Oral Diseases, 2004, 10, 155-162.	3.0	50
67	Histochemical, immunohistological and scanning electron microscope analysis of tissue retained on spontaneously extruded ventilation tubes. Journal of Laryngology and Otology, 2002, 116, 333-9.	0.8	4
68	Thyroid hormone, vitamin D and retinoid receptor expression and signalling in primary cultures of rat osteoblastic and immortalised osteosarcoma cells. Journal of Endocrinology, 1997, 154, 63-74.	2.6	32
69	Application of the low vacuum scanning electron microscope to the study of biomaterials and mammalian cells. Biomaterials, 1997, 18, 81-86.	11.4	21
70	Effect of pH on protein adsorption to hydroxyapatite and tricalcium phosphate ceramics. Biomaterials, 1997, 18, 471-476.	11.4	79
71	Novel culture procedure permitting the synthesis of proteins by rat calvarial cells cultured on hydroxyapatite particles to be quantified. Biomaterials, 1994, 15, 536-542.	11.4	12
72	Use of enhanced chemiluminescence to quantify protein adsorption to calcium phosphate materials and microcarrier beads. Biomaterials, 1994, 15, 842-847.	11.4	19

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73	Molecular genetical and phenotypical analysis of thegerMspore germination gene ofBacillus subtilis168. FEMS Microbiology Letters, 1994, 121, 315-320.	1.8	16