

# Rolando A Gittens

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

3,203  
citations

471061

17  
h-index

580395

25  
g-index

27  
all docs

27  
docs citations

27  
times ranked

4549  
citing authors

#	ARTICLE	IF	CITATIONS
1	The effects of combined micron-/submicron-scale surface roughness and nanoscale features on cell proliferation and differentiation. <i>Biomaterials</i> , 2011, 32, 3395-3403.	5.7	709
2	A review on the wettability of dental implant surfaces II: Biological and clinical aspects. <i>Acta Biomaterialia</i> , 2014, 10, 2907-2918.	4.1	607
3	A review on the wettability of dental implant surfaces I: Theoretical and experimental aspects. <i>Acta Biomaterialia</i> , 2014, 10, 2894-2906.	4.1	356
4	Implant osseointegration and the role of microroughness and nanostructures: Lessons for spine implants. <i>Acta Biomaterialia</i> , 2014, 10, 3363-3371.	4.1	344
5	The roles of titanium surface micro/nanotopography and wettability on the differential response of human osteoblast lineage cells. <i>Acta Biomaterialia</i> , 2013, 9, 6268-6277.	4.1	252
6	Osteoblasts exhibit a more differentiated phenotype and increased bone morphogenetic protein production on titanium alloy substrates than on poly-ether-ether-ketone. <i>Spine Journal</i> , 2012, 12, 265-272.	0.6	168
7	Differential responses of osteoblast lineage cells to nanotopographically-modified, microroughened titanium–aluminum–vanadium alloy surfaces. <i>Biomaterials</i> , 2012, 33, 8986-8994.	5.7	141
8	Rough titanium alloys regulate osteoblast production of angiogenic factors. <i>Spine Journal</i> , 2013, 13, 1563-1570.	0.6	112
9	Electrical Implications of Corrosion for Osseointegration of Titanium Implants. <i>Journal of Dental Research</i> , 2011, 90, 1389-1397.	2.5	102
10	Effects of structural properties of electrospun TiO <sub>2</sub> nanofiber meshes on their osteogenic potential. <i>Acta Biomaterialia</i> , 2012, 8, 878-885.	4.1	59
11	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
12	Regulating <i>in vivo</i> calcification of alginate microbeads. <i>Biomaterials</i> , 2010, 31, 4926-4934.	5.7	52
13	High infestation of invasive <i>Aedes</i> mosquitoes in used tires along the local transport network of Panama. <i>Parasites and Vectors</i> , 2019, 12, 264.	1.0	46
14	Role of $\alpha 2 \beta 1$ integrins in mediating cell shape on microtextured titanium surfaces. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 564-573.	2.1	38
15	Electrical polarization of titanium surfaces for the enhancement of osteoblast differentiation. <i>Bioelectromagnetics</i> , 2013, 34, 599-612.	0.9	28
16	Role of integrin $\alpha 2 \beta 1$ in mediating osteoblastic differentiation on three-dimensional titanium scaffolds with submicron-scale texture. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 1907-1918.	2.1	26
17	Superposition of nanostructures on microrough titanium–aluminum–vanadium alloy surfaces results in an altered integrin expression profile in osteoblasts. <i>Connective Tissue Research</i> , 2014, 55, 164-168.	1.1	20
18	Cognitive Deficits after Cerebral Ischemia and Underlying Dysfunctional Plasticity: Potential Targets for Recovery of Cognition. <i>Journal of Alzheimer's Disease</i> , 2017, 60, S87-S105.	1.2	18

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19	Surface modification of bulk titanium substrates for biomedical applications via low-temperature microwave hydrothermal oxidation. <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 782-796.	2.1	16
20	Role of Region-Specific Brain Decellularized Extracellular Matrix on <i>In Vitro</i> Neuronal Maturation. <i>Tissue Engineering - Part A</i> , 2020, 26, 964-978.	1.6	16
21	Application of matrix-assisted laser desorption/ionization mass spectrometry to identify species of Neotropical Anopheles vectors of malaria. <i>Malaria Journal</i> , 2019, 18, 95.	0.8	12
22	COVID-19 pandemic in Panama: lessons of the unique risks and research opportunities for Latin America. <i>Revista Panamericana De Salud Publica/Pan American Journal of Public Health</i> , 2020, 44, 1.	0.6	8
23	Proteomic fingerprinting of Neotropical hard tick species (Acari: Ixodidae) using a self-curated mass spectra reference library. <i>PLoS Neglected Tropical Diseases</i> , 2020, 14, e0008849.	1.3	7
24	Epidemiological Chronicle of the First Recovered Coronavirus Disease Patient From Panama: Evidence of Early Cluster Transmission in a High School of Panama City. <i>Frontiers in Public Health</i> , 2020, 8, 553730.	1.3	4
25	Blood Stage Plasmodium falciparum Exhibits Biological Responses to Direct Current Electric Fields. <i>PLoS ONE</i> , 2016, 11, e0161207.	1.1	3