

Sidnei Paciornik

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

96
papers

1,738
citations

25
h-index

37
g-index

103
ext. papers

2,003
ext. citations

3.5
avg, IF

4.73
L-index

#	Paper	IF	Citations
96	Macro and meso analysis of cement-based materials subjected to triaxial and uniaxial loading using X-ray microtomography and digital volume correlation. <i>Construction and Building Materials</i> , 2022 , 323, 126558	6.7	1
95	Bamboo-Based Microfluidic System for Sustainable Bio-devices. <i>Environmental Footprints and Eco-design of Products and Processes</i> , 2022 , 141-169	0.9	0
94	Enhancement of oil recovery by emulsion injection: A pore scale analysis from X-ray micro-tomography measurements. <i>Journal of Petroleum Science and Engineering</i> , 2021 , 198, 108134	4.4	7
93	The use of X-ray microtomography to investigate the shear behavior of hybrid fiber reinforced strain hardening cementitious composites. <i>Journal of Building Engineering</i> , 2021 , 43, 103126	5.2	1
92	Combined mechanical and 3D-microstructural analysis of strain-hardening cement-based composites (SHCC) by in-situ X-ray microtomography. <i>Cement and Concrete Research</i> , 2020 , 136, 106139 ^{10.3}		23
91	Advanced Deep Learning-Based 3D Microstructural Characterization of Multiphase Metal Matrix Composites. <i>Advanced Engineering Materials</i> , 2020 , 22, 1901197	3.5	12
90	Semantic segmentation of the micro-structure of strain-hardening cement-based composites (SHCC) by applying deep learning on micro-computed tomography scans. <i>Cement and Concrete Composites</i> , 2020 , 108, 103551	8.6	27
89	Discrimination of pores and cracks in iron ore pellets using deep learning neural networks. <i>REM: International Engineering Journal</i> , 2020 , 73, 197-203	0.4	2
88	Analysis of cracks and coating in iron ore pellets by digital image processing. <i>REM: International Engineering Journal</i> , 2020 , 73, 345-352	0.4	0
87	Biomimetic systems and design in the 3D characterization of the complex vascular system of bamboo node based on X-ray microtomography and finite element analysis. <i>Journal of Materials Research</i> , 2020 , 35, 842-854	2.5	13
86	Study of composition and structure of demineralized bone using X-ray techniques. <i>Radiation Physics and Chemistry</i> , 2020 , 167, 108310	2.5	1
85	Pore Scale Visualization of Drainage in 3D Porous Media by Confocal Microscopy. <i>Scientific Reports</i> , 2019 , 9, 12333	4.9	9
84	A regioselective coating onto microarray channels of bamboo with chitosan-based silver nanoparticles 2019 , 16, 999-1011		7
83	Anatomical danger zone reconsidered: a micro-CT study on dentine thickness in mandibular molars. <i>International Endodontic Journal</i> , 2019 , 52, 1501-1507	5.4	16
82	Deep learning discrimination of quartz and resin in optical microscopy images of minerals. <i>Minerals Engineering</i> , 2019 , 138, 79-85	4.9	26
81	An image analysis system for automatic characterisation of iron ore sintering quasiparticles. <i>Mineral Processing and Extractive Metallurgy: Transactions of the Institute of Mining and Metallurgy</i> , 2019 , 1-9	0.8	2
80	Characterization by microcomputed tomography of class G oil well cement paste exposed to elevated temperatures. <i>Journal of Petroleum Science and Engineering</i> , 2019 , 175, 896-904	4.4	11

79	Investigation of the thermal microstructural effects of CO ₂ laser engraving on agate via X-ray microtomography. <i>Optics and Laser Technology</i> , 2018 , 104, 56-64	4.2	12
78	Optimization of digital image processing to determine quantum dots height and density from atomic force microscopy. <i>Ultramicroscopy</i> , 2018 , 184, 234-241	3.1	5
77	Automatic characterization of iron ore by digital microscopy and image analysis. <i>Journal of Materials Research and Technology</i> , 2018 , 7, 376-380	5.5	11
76	Porosity Characterization of Iron Ore Pellets by X-Ray Microtomography. <i>Materials Research</i> , 2018 , 21,	1.5	17
75	Characterization of iron ore pellets by multimodal microscopy and image analysis. <i>REM: International Engineering Journal</i> , 2018 , 71, 209-215	0.4	1
74	Chemical induced demineralization study in cortical bone. <i>Journal of Instrumentation</i> , 2018 , 13, C05010-G05010		
73	From Historical Backgrounds to Recent Advances in 3D Characterization of Materials: An Overview. <i>Jom</i> , 2017 , 69, 84-92	2.1	9
72	General evaluation of sand column models by X-ray MicroCT. <i>International Journal of Physical Modelling in Geotechnics</i> , 2017 , 17, 91-102	1	
71	Porosity Assessment for Different Diameters of Coir Lignocellulosic Fibers. <i>Jom</i> , 2017 , 69, 2045-2051	2.1	6
70	Influence of the Cement Film Thickness on the Push-Out Bond Strength of Glass Fiber Posts Cemented in Human Root Canals. <i>International Journal of Dentistry</i> , 2016 , 2016, 9319534	1.9	4
69	Colloidal silver nanoparticles: an effective nano-filler material to prevent fungal proliferation in bamboo. <i>RSC Advances</i> , 2016 , 6, 98325-98336	3.7	17
68	Fe-doped nanostructured titanates synthesized in a single step route. <i>Materials Characterization</i> , 2015 , 99, 150-159	3.9	8
67	Exploiting the potential of free software to evaluate root canal biomechanical preparation outcomes through micro-CT images. <i>International Endodontic Journal</i> , 2015 , 48, 1033-42	5.4	34
66	Multiscale 3D characterization of discontinuities in underwater wet welds. <i>Materials Characterization</i> , 2015 , 107, 358-366	3.9	19
65	Dental bleaching agents with calcium and their effects on enamel microhardness and morphology. <i>Brazilian Journal of Oral Sciences</i> , 2015 , 14, 154-158	10	6
64	Micro-CT Evaluation of Non-instrumented Canal Areas with Different Enlargements Performed by NiTi Systems. <i>Brazilian Dental Journal</i> , 2015 , 26, 624-9	1.9	45
63	Accumulated hard tissue debris produced during reciprocating and rotary nickel-titanium canal preparation. <i>Journal of Endodontics</i> , 2015 , 41, 676-81	4.7	63
62	Assessing accumulated hard-tissue debris using micro-computed tomography and free software for image processing and analysis. <i>Journal of Endodontics</i> , 2014 , 40, 271-6	4.7	41

61	Strengthening mechanisms in a pipeline microalloyed steel with a complex microstructure. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 585, 253-260	5.3	22
60	Image analysis of cracks in the weld metal of a wet welded steel joint by three dimensional (3D) X-ray microtomography. <i>Materials Characterization</i> , 2013 , 83, 139-144	3.9	20
59	Classification of hematite types in iron ores through circularly polarized light microscopy and image analysis. <i>Minerals Engineering</i> , 2013 , 52, 191-197	4.9	12
58	Influência do molibdênio em propriedades do metal de solda na soldagem molhada com eletrodos $\sqrt{2}$ -rutílicos. <i>Soldagem E Inspecao</i> , 2013 , 18, 102-109	0.3	3
57	Lack of correlation between sealer penetration into dentinal tubules and sealability in nonbonded root fillings. <i>International Endodontic Journal</i> , 2012 , 45, 642-51	5.4	42
56	Multimodal Microscopy for Ore Characterization 2012 ,		2
55	Evaluation of the cross-section of lignocellulosic fibers using digital microscopy and image analysis. <i>Journal of Composite Materials</i> , 2012 , 46, 3057-3065	2.7	14
54	Gold nanoparticles on the surface of soda-lime glass: morphological, linear and nonlinear optical characterization. <i>Optics Express</i> , 2012 , 20, 5429-39	3.3	30
53	Characterization of Carbonate Rocks through X-Ray Microtomography 2012 , 183-188		
52	Mapping large extensions of flat dentin through digital microscopy: introduction to the method and possible applications. <i>Journal of Adhesive Dentistry</i> , 2012 , 14, 349-54	3	1
51	Critical appraisal of published smear layer-removal studies: methodological issues. <i>Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics</i> , 2011 , 112, 531-43		53
50	Smear layer dissolution by peracetic acid of low concentration. <i>International Endodontic Journal</i> , 2011 , 44, 485-90	5.4	33
49	Automatic recognition of hematite grains under polarized reflected light microscopy through image analysis. <i>Minerals Engineering</i> , 2011 , 24, 1264-1270	4.9	17
48	Estudo comparativo de eletrodos comerciais para soldagem subaquática molhada. <i>Soldagem E Inspecao</i> , 2010 , 15, 325-335	0.3	4
47	Digital microscopy and image analysis applied to composite materials characterization. <i>Revista Materia</i> , 2010 , 15, 172-181	0.8	6
46	Microstructural evaluation and flexural mechanical behavior of pultruded glass fiber composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 528, 172-179	5.3	12
45	Microstructural Analysis of Composite Tubes through Digital Microscopy. <i>Journal of Composite Materials</i> , 2009 , 43, 1857-1868	2.7	4
44	Measurement of Void Content and Distribution in Composite Materials through Digital Microscopy. <i>Journal of Composite Materials</i> , 2009 , 43, 101-112	2.7	35

43	Two- and three-dimensional profilometer assessments to determine titanium roughness. <i>Scanning</i> , 2009 , 31, 174-9	1.6	11
42	Push-out bond strength of Resilon/Epiphany and Resilon/Epiphany self-etch to root dentin. <i>Journal of Endodontics</i> , 2009 , 35, 1048-50	4-7	53
41	CARACTERIZAÇ�O DE PELOTAS DE MIN�RIO DE FERRO POR MICROSCOPIA DIGITAL E AN�LISE DE IMAGENS. <i>Tecnologia Em Metalurgia E Materiais</i> , 2009 , 5, 215-218		2
40	CARACTERIZAÇ�O QUANTITATIVA DE MIN�RIO DE FERRO POR MICROSCOPIA CO-LOCALIZADA. <i>Tecnologia Em Metalurgia E Materiais</i> , 2009 , 6, 91-95		2
39	Co-site Microscopy: Case Studies. <i>Praktische Metallographie/Practical Metallography</i> , 2009 , 46, 483-498	0-3	1
38	The effect of the canal-filled area on the bacterial leakage of oval-shaped canals. <i>International Endodontic Journal</i> , 2008 , 41, 183-90	5-4	41
37	Dentine demineralization when subjected to EDTA with or without various wetting agents: a co-site digital optical microscopy study. <i>International Endodontic Journal</i> , 2008 , 41, 279-87	5-4	20
36	Strong effect on dentin after the use of high concentrations of citric acid: an assessment with co-site optical microscopy and ESEM. <i>Dental Materials</i> , 2008 , 24, 1608-15	5-7	41
35	Longitudinal co-site optical microscopy study on the chelating ability of etidronate and EDTA using a comparative single-tooth model. <i>Journal of Endodontics</i> , 2008 , 34, 71-5	4-7	51
34	Limited ability of three commonly used thermoplasticized gutta-percha techniques in filling oval-shaped canals. <i>Journal of Endodontics</i> , 2008 , 34, 1401-1405	4-7	87
33	Longitudinal and quantitative evaluation of dentin demineralization when subjected to EDTA, EDTAC, and citric acid: a co-site digital optical microscopy study. <i>Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics</i> , 2008 , 105, 391-7		14
32	High concentration of residual aluminum oxide on titanium surface inhibits extracellular matrix mineralization. <i>Journal of Biomedical Materials Research - Part A</i> , 2008 , 87, 588-97	5-4	22
31	Evaluation of microstructural parameters of human dentin by digital image analysis. <i>Materials Research</i> , 2007 , 10, 153-159	1-5	10
30	Co-site digital optical microscopy and image analysis: an approach to evaluate the process of dentine demineralization. <i>International Endodontic Journal</i> , 2007 , 40, 441-52	5-4	15
29	In situ atomic force microscopy and image analysis of dentine submitted to acid etching. <i>Journal of Microscopy</i> , 2007 , 225, 236-43	1-9	1
28	Dentin demineralization when subjected to BioPure MTAD: a longitudinal and quantitative assessment. <i>Journal of Endodontics</i> , 2007 , 33, 1364-8	4-7	20
27	Polymicrobial leakage of four root canal sealers at two different thicknesses. <i>Journal of Endodontics</i> , 2006 , 32, 998-1001	4-7	41
26	An�lise de um composto complexo por microscopia eletr�nica digital e an�lise de imagens. <i>Revista Materia</i> , 2006 , 11, 273-277	0-8	

25	Scanner image analysis in the quantification of mercury using spot-tests. <i>Journal of the Brazilian Chemical Society</i> , 2006 , 17, 156-161	1.5	30
24	Evaluation of the effect of EDTA, EDTAC and citric acid on the microhardness of root dentine. <i>International Endodontic Journal</i> , 2006 , 39, 401-7	5.4	66
23	Real-time atomic force microscopy of root dentine during demineralization when subjected to chelating agents. <i>International Endodontic Journal</i> , 2006 , 39, 683-92	5.4	41
22	Analysis of Reactions in the Fe ₂ N System through X-rays Diffraction Image Processing. <i>ISIJ International</i> , 2006 , 46, 1674-1678	1.7	
21	Uptake of host cell transforming growth factor-beta by Trypanosoma cruzi amastigotes in cardiomyocytes: potential role in parasite cycle completion. <i>American Journal of Pathology</i> , 2005 , 167, 993-1003	5.8	41
20	Automatic classification of graphite in cast iron. <i>Microscopy and Microanalysis</i> , 2005 , 11, 363-71	0.5	13
19	Evaluation of the effect of the ballistic damaged area on the residual impact strength and tensile stiffness of glass-fabric composite materials. <i>Composite Structures</i> , 2004 , 64, 123-127	5.3	18
18	Evaluation of the damaged area of glass-fiber-reinforced epoxy-matrix composite materials submitted to ballistic impacts. <i>Composites Science and Technology</i> , 2004 , 64, 945-954	8.6	49
17	Determination of the post-ballistic impact mechanical behavior of a 45° glass fabric composite. <i>Polymer Testing</i> , 2004 , 23, 599-604	4.5	6
16	Multi-scale analysis of the dielectric properties and structure of resin/carbon-black nanocomposites. <i>EPJ Applied Physics</i> , 2003 , 21, 17-26	1.1	9
15	In Situ observation of phase transformations in the Fe-Zn system. <i>Materials Research</i> , 2003 , 6, 529-533	1.5	2
14	Analysis of the mechanical behavior and characterization of pultruded glass fiber/resin matrix composites. <i>Composites Science and Technology</i> , 2003 , 63, 295-304	8.6	30
13	Uncertainty evaluation of metallographic measurements by image analysis and thermodynamic modeling. <i>Materials Characterization</i> , 2001 , 47, 219-226	3.9	11
12	A low-cost non instrumental method for semiquantitative determination of mercury in fish. <i>Fresenius Journal of Analytical Chemistry</i> , 2000 , 366, 461-5		14
11	Magic-Size Equilibrium Shapes of Nanoscale Pb Inclusions in Al. <i>Physical Review Letters</i> , 1997 , 78, 471-474	4.4	91
10	A pattern recognition technique for the analysis of grain boundary structure by HREM. <i>Ultramicroscopy</i> , 1996 , 62, 15-27	3.1	25
9	Quantification of the modulated structures in TiPdCr alloys. <i>Journal of Microscopy</i> , 1995 , 180, 51-60	1.9	4
8	Assessment of specimen noise in HREM images of simple structures. <i>Ultramicroscopy</i> , 1993 , 50, 255-262	3.1	16

7	Photoluminescence of LiF crystal colored by a focused electron beam. <i>Optics Communications</i> , 1992 , 94, 139-142	2	36
6	Intensity quenching of the F3+colour centre emission in lithium fluoride. <i>Journal Physics D: Applied Physics</i> , 1991 , 24, 1811-1815	3	12
5	Electron-beam production of colour centres on alkali halide crystals and films. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1988 , 32, 222-224	1.2	20
4	Paraelastic behavior of potassium cyanide. <i>Solid State Communications</i> , 1986 , 59, 717-719	1.6	
3	One-Pot Synthesis of Carboxymethylcellulose-Templated Copper-NPs for Heterocatalytic Huisgen-Click Reactions on Lignocellulosic Bamboo Slices. <i>Catalysis Letters</i> ,1	2.8	1
2	Characterization of Carbonate Rocks through X-Ray Microtomography183-188		
1	Evolution of Damage in All-Oxide Ceramic Matrix Composite After Cyclic Loading. <i>Advanced Engineering Materials</i> ,2100763	3.5	1