

Sidnei Paciornik

List of Publications by Year in descending order

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103
papers

2,337
citations

185998

28
h-index

253896

43
g-index

103
all docs

103
docs citations

103
times ranked

2230
citing authors

#	ARTICLE	IF	CITATIONS
1	Limited Ability of Three Commonly Used Thermoplasticized Gutta-Percha Techniques in Filling Oval-shaped Canals. <i>Journal of Endodontics</i> , 2008, 34, 1401-1405.	1.4	116
2	Magic-Size Equilibrium Shapes of Nanoscale Pb Inclusions in Al. <i>Physical Review Letters</i> , 1997, 78, 471-474.	2.9	101
3	Critical appraisal of published smear layer-removal studies: methodological issues. <i>Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics</i> , 2011, 112, 531-543.	1.6	85
4	Evaluation of the effect of EDTA, EDTAC and citric acid on the microhardness of root dentine. <i>International Endodontic Journal</i> , 2006, 39, 401-407.	2.3	83
5	Accumulated Hard Tissue Debris Produced during Reciprocating and Rotary Nickel-Titanium Canal Preparation. <i>Journal of Endodontics</i> , 2015, 41, 676-681.	1.4	81
6	Micro-CT Evaluation of Non-instrumented Canal Areas with Different Enlargements Performed by NiTi Systems. <i>Brazilian Dental Journal</i> , 2015, 26, 624-629.	0.5	70
7	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, 71-75.	1.4	69
8	Push-out Bond Strength of Resilon/Epiphany and Resilon/Epiphany Self-Etch to Root Dentin. <i>Journal of Endodontics</i> , 2009, 35, 1048-1050.	1.4	64
9	Lack of correlation between sealer penetration into dentinal tubules and sealability in nonbonded root fillings. <i>International Endodontic Journal</i> , 2012, 45, 642-651.	2.3	61
10	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.	3.8	54
11	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, 1608-1615.	1.6	51
12	Polymicrobial Leakage of Four Root Canal Sealers at Two Different Thicknesses. <i>Journal of Endodontics</i> , 2006, 32, 998-1001.	1.4	50
13	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.	4.6	50
14	Real-time atomic force microscopy of root dentine during demineralization when subjected to chelating agents. <i>International Endodontic Journal</i> , 2006, 39, 683-692.	2.3	47
15	The effect of the canal-filled area on the bacterial leakage of oval-shaped canals. <i>International Endodontic Journal</i> , 2008, 41, 183-190.	2.3	47
16	Assessing Accumulated Hard-tissue Debris Using Micro-computed Tomography and Free Software for Image Processing and Analysis. <i>Journal of Endodontics</i> , 2014, 40, 271-276.	1.4	47
17	Smear layer dissolution by peracetic acid of low concentration. <i>International Endodontic Journal</i> , 2011, 44, 485-490.	2.3	46
18	Exploiting the potential of free software to evaluate root canal biomechanical preparation outcomes through micro-CT images. <i>International Endodontic Journal</i> , 2015, 48, 1033-1042.	2.3	45

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19	Uptake of Host Cell Transforming Growth Factor- β 2 by Trypanosoma cruzi Amastigotes in Cardiomyocytes. American Journal of Pathology, 2005, 167, 993-1003.	1.9	44
20	Deep learning discrimination of quartz and resin in optical microscopy images of minerals. Minerals Engineering, 2019, 138, 79-85.	1.8	43
21	Scanner image analysis in the quantification of mercury using spot-tests. Journal of the Brazilian Chemical Society, 2006, 17, 156-161.	0.6	42
22	Anatomical danger zone reconsidered: a micro-CT study on dentine thickness in mandibular molars. International Endodontic Journal, 2019, 52, 1501-1507.	2.3	42
23	Measurement of Void Content and Distribution in Composite Materials through Digital Microscopy. Journal of Composite Materials, 2009, 43, 101-112.	1.2	41
24	Combined mechanical and 3D-microstructural analysis of strain-hardening cement-based composites (SHCC) by in-situ X-ray microtomography. Cement and Concrete Research, 2020, 136, 106139.	4.6	41
25	Photoluminescence of LiF crystal colored by a focused electron beam. Optics Communications, 1992, 94, 139-142.	1.0	40
26	Analysis of the mechanical behavior and characterization of pultruded glass fiber-resin matrix composites. Composites Science and Technology, 2003, 63, 295-304.	3.8	36
27	Colloidal silver nanoparticles: an effective nano-filler material to prevent fungal proliferation in bamboo. RSC Advances, 2016, 6, 98325-98336.	1.7	32
28	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. Journal of Materials Research, 2020, 35, 842-854.	1.2	32
29	Gold nanoparticles on the surface of soda-lime glass: morphological, linear and nonlinear optical characterization. Optics Express, 2012, 20, 5429.	1.7	31
30	Strengthening mechanisms in a pipeline microalloyed steel with a complex microstructure. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 585, 253-260.	2.6	30
31	Dentine demineralization when subjected to EDTA with or without various wetting agents: a co-site digital optical microscopy study. International Endodontic Journal, 2008, 41, 279-287.	2.3	29
32	High concentration of residual aluminum oxide on titanium surface inhibits extracellular matrix mineralization. Journal of Biomedical Materials Research - Part A, 2008, 87A, 588-597.	2.1	28
33	A pattern recognition technique for the analysis of grain boundary structure by HREM. Ultramicroscopy, 1996, 62, 15-27.	0.8	26
34	Advanced Deep Learning-Based 3D Microstructural Characterization of Multiphase Metal Matrix Composites. Advanced Engineering Materials, 2020, 22, 1901197.	1.6	26
35	Electron-beam production of colour centres on alkali halide crystals and films. Nuclear Instruments & Methods in Physics Research B, 1988, 32, 222-224.	0.6	24
36	Automatic recognition of hematite grains under polarized reflected light microscopy through image analysis. Minerals Engineering, 2011, 24, 1264-1270.	1.8	24

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37	Dentin Demineralization When Subjected to BioPure MTAD: A Longitudinal and Quantitative Assessment. <i>Journal of Endodontics</i> , 2007, 33, 1364-1368.	1.4	23
38	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.	1.9	23
39	Porosity Characterization of Iron Ore Pellets by X-Ray Microtomography. <i>Materials Research</i> , 2018, 21, .	0.6	23
40	Automatic Classification of Graphite in Cast Iron. <i>Microscopy and Microanalysis</i> , 2005, 11, 363-371.	0.2	22
41	Multiscale 3D characterization of discontinuities in underwater wet welds. <i>Materials Characterization</i> , 2015, 107, 358-366.	1.9	22
42	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.	3.1	20
43	Classification of hematite types in iron ores through circularly polarized light microscopy and image analysis. <i>Minerals Engineering</i> , 2013, 52, 191-197.	1.8	19
44	Co-site digital optical microscopy and image analysis: an approach to evaluate the process of dentine demineralization. <i>International Endodontic Journal</i> , 2007, 40, 441-452.	2.3	18
45	Pore Scale Visualization of Drainage in 3D Porous Media by Confocal Microscopy. <i>Scientific Reports</i> , 2019, 9, 12333.	1.6	18
46	Assessment of specimen noise in HREM images of simple structures. <i>Ultramicroscopy</i> , 1993, 50, 255-262.	0.8	17
47	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, 391-397.	1.6	17
48	Two and three dimensional profilometer assessments to determine titanium roughness. <i>Scanning</i> , 2009, 31, 174-179.	0.7	17
49	A low-cost non instrumental method for semiquantitative determination of mercury in fish. <i>Fresenius' Journal of Analytical Chemistry</i> , 2000, 366, 461-465.	1.5	16
50	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.	2.1	16
51	Uncertainty evaluation of metallographic measurements by image analysis and thermodynamic modeling. <i>Materials Characterization</i> , 2001, 47, 219-226.	1.9	15
52	Evaluation of the cross-section of lignocellulosic fibers using digital microscopy and image analysis. <i>Journal of Composite Materials</i> , 2012, 46, 3057-3065.	1.2	15
53	Automatic characterization of iron ore by digital microscopy and image analysis. <i>Journal of Materials Research and Technology</i> , 2018, 7, 376-380.	2.6	15
54	Multi-scale analysis of the dielectric properties and structure of resin/carbon-black nanocomposites. <i>EPJ Applied Physics</i> , 2003, 21, 17-26.	0.3	14

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55	From Historical Backgrounds to Recent Advances in 3D Characterization of Materials: An Overview. <i>Jom</i> , 2017, 69, 84-92.	0.9	14
56	A regioselective coating onto microarray channels of bamboo with chitosan-based silver nanoparticles. <i>Journal of Coatings Technology Research</i> , 2019, 16, 999-1011.	1.2	14
57	Intensity quenching of the F3+colour centre emission in lithium fluoride. <i>Journal Physics D: Applied Physics</i> , 1991, 24, 1811-1815.	1.3	13
58	Evaluation of microstructural parameters of human dentin by digital image analysis. <i>Materials Research</i> , 2007, 10, 153-159.	0.6	13
59	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.	2.6	13
60	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.	2.2	12
61	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.	2.1	12
62	Discrimination of pores and cracks in iron ore pellets using deep learning neural networks. <i>REM: International Engineering Journal</i> , 2020, 73, 197-203.	0.2	11
63	Porosity Assessment for Different Diameters of Coir Lignocellulosic Fibers. <i>Jom</i> , 2017, 69, 2045-2051.	0.9	10
64	Dental bleaching agents with calcium and their effects on enamel microhardness and morphology. <i>Brazilian Journal of Oral Sciences</i> , 2015, 14, 154-158.	0.1	8
65	Fe-doped nanostructured titanates synthesized in a single step route. <i>Materials Characterization</i> , 2015, 99, 150-159.	1.9	8
66	Optimization of digital image processing to determine quantum dots™ height and density from atomic force microscopy. <i>Ultramicroscopy</i> , 2018, 184, 234-241.	0.8	8
67	Evolution of Damage in Al ₂ O ₃ Ceramic Matrix Composite After Cyclic Loading. <i>Advanced Engineering Materials</i> , 2022, 24, 2100763.	1.6	8
68	Digital microscopy and image analysis applied to composite materials characterization. <i>Revista Materia</i> , 2010, 15, 172-181.	0.1	7
69	One-Pot Synthesis of Carboxymethylcellulose-Templated Copper-NPs for Heterocatalytic Huisgen-Click Reactions on Lignocellulosic Bamboo Slices. <i>Catalysis Letters</i> , 2022, 152, 3558-3575.	1.4	7
70	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.	3.2	7
71	Determination of the post-ballistic impact mechanical behavior of a 45° glass fabric composite. <i>Polymer Testing</i> , 2004, 23, 599-604.	2.3	6
72	Estudo comparativo de eletrodos comerciais para soldagem subaquática molhada. <i>Soldagem E Inspecao</i> , 2010, 15, 325-335.	0.6	6

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73	Quantification of the modulated structures in TiPdCr alloys. <i>Journal of Microscopy</i> , 1995, 180, 51-60.	0.8	5
74	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, 1-7.	0.5	5
75	Microstructural Analysis of Composite Tubes through Digital Microscopy. <i>Journal of Composite Materials</i> , 2009, 43, 1857-1868.	1.2	4
76	Study of composition and structure of demineralized bone using X-ray techniques. <i>Radiation Physics and Chemistry</i> , 2020, 167, 108310.	1.4	4
77	Bamboo-Based Microfluidic System for Sustainable Bio-devices. <i>Environmental Footprints and Eco-design of Products and Processes</i> , 2022, , 141-169.	0.7	4
78	Multimodal Microscopy for Ore Characterization. , 2012, , .		3
79	Influência do molibdênio em propriedades do metal de solda na soldagem molhada com eletrodos Ti-3\%Ni . <i>Soldagem E Inspecao</i> , 2013, 18, 102-109.	0.6	3
80	Chemical induced demineralization study in cortical bone. <i>Journal of Instrumentation</i> , 2018, 13, C05010-C05010.	0.5	3
81	CARACTERIZAÇÃO DE PELotas DE MINÉRIO DE FERRO POR MICROSCOPIA DIGITAL E ANÁLISE DE IMAGENS. <i>Tecnologia Em Metalurgia E Materiais</i> , 2009, 5, 215-218.	0.1	3
82	In Situ observation of phase transformations in the Fe-Zn system. <i>Materials Research</i> , 2003, 6, 529-533.	0.6	2
83	In situ atomic force microscopy and image analysis of dentine submitted to acid etching. <i>Journal of Microscopy</i> , 2007, 225, 236-243.	0.8	2
84	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> , 2022, 131, 25-33.	0.1	2
85	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.	1.6	2
86	CARACTERIZAÇÃO QUANTITATIVA DE MINÉRIO DE FERRO POR MICROSCOPIA CO-LOCALIZADA. <i>Tecnologia Em Metalurgia E Materiais</i> , 2009, 6, 91-95.	0.1	2
87	Co-site Microscopy: Case Studies. <i>Praktische Metallographie/Practical Metallography</i> , 2009, 46, 483-498.	0.1	2
88	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.	0.3	2
89	Color centers photomasks produced by electron-beam lithography. , 1992, 1674, 552.		1
90	Characterization of iron ore pellets by multimodal microscopy and image analysis. <i>REM: International Engineering Journal</i> , 2018, 71, 209-215.	0.2	1

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91	CARACTERIZAÇÃƒO QUANTITATIVA DE SÃƒNTER. Tecnologia Em Metalurgia E Materiais, 2010, 7, 12-17.	0.1	1
92	Analysis of cracks and coating in iron ore pellets by digital image processing. REM: International Engineering Journal, 2020, 73, 345-352.	0.2	1
93	Paraelastic behavior of potassium cyanide. Solid State Communications, 1986, 59, 717-719.	0.9	0
94	Face detector combining eigenfaces, neural network and bootstrap. , 0, , .		0
95	Pattern recognition in the characterization of the mesostructure of bamboo. , 0, , .		0
96	AnÃ¡lise de um compÃ³sito complexo por microscopia eletrÃ³nica digital e anÃ¡lise de imagens. Revista Materia, 2006, 11, 273-277.	0.1	0
97	General evaluation of sand column models by X-ray MicroCT. International Journal of Physical Modelling in Geotechnics, 2017, 17, 91-102.	0.5	0
98	CARACTERIZAÇÃƒO DE DUTOS COMPÃƒSITOS POR MICROSCOPIA DIGITAL. Tecnologia Em Metalurgia E Materiais, 2005, 2, 7-11.	0.1	0
99	Analysis of Reactions in the Feâ€Zn System through X-rays Diffraction Image Processing. ISIJ International, 2006, 46, 1674-1678.	0.6	0
100	ClassificaÃ§Ã£o MORFOLÃ“GICA de AREIAS RECICLADAS por anÃ¡lise de imagens. Tecnologia Em Metalurgia E Materiais, 2011, 8, 267-272.	0.1	0
101	Characterization of Carbonate Rocks through X-Ray Microtomography. , 2012, , 183-188.		0
102	Characterization of Carbonate Rocks through X-Ray Microtomography. , 0, , 183-188.		0
103	Bionanocomposite Bamboo: A Regioselective Impregnation with Silver Nanofillers for Antifungal Application. , 2018, , .		0