

# Sidnei Paciornik

## List of Publications by Year in descending order

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103  
papers

2,337  
citations

186265

28  
h-index

254184

43  
g-index

103  
all docs

103  
docs citations

103  
times ranked

2230  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	0.2	2
2	Evolution of Damage in Al <sub>2</sub> O <sub>3</sub> Ceramic Matrix Composite After Cyclic Loading. <i>Advanced Engineering Materials</i> , 2022, 24, 2100763.	3.5	8
3	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.	2.6	7
4	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.	7.2	7
5	Bamboo-Based Microfluidic System for Sustainable Bio-devices. <i>Environmental Footprints and Eco-design of Products and Processes</i> , 2022, , 141-169.	1.1	4
6	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.	4.2	12
7	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.	3.4	2
8	Study of composition and structure of demineralized bone using X-ray techniques. <i>Radiation Physics and Chemistry</i> , 2020, 167, 108310.	2.8	4
9	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.	2.6	32
10	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.	11.0	41
11	Advanced Deep Learning-Based 3D Microstructural Characterization of Multiphase Metal Matrix Composites. <i>Advanced Engineering Materials</i> , 2020, 22, 1901197.	3.5	26
12	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.	10.7	50
13	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	11
14	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	1
15	Pore Scale Visualization of Drainage in 3D Porous Media by Confocal Microscopy. <i>Scientific Reports</i> , 2019, 9, 12333.	3.3	18
16	A regioselective coating onto microarray channels of bamboo with chitosan-based silver nanoparticles. <i>Journal of Coatings Technology Research</i> , 2019, 16, 999-1011.	2.5	14
17	Anatomical danger zone reconsidered: a micro-CT study on dentine thickness in mandibular molars. <i>International Endodontic Journal</i> , 2019, 52, 1501-1507.	5.0	42
18	Deep learning discrimination of quartz and resin in optical microscopy images of minerals. <i>Minerals Engineering</i> , 2019, 138, 79-85.	4.3	43

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19	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.	4.2	16
20	Investigation of the thermal microstructural effects of CO <sub>2</sub> laser engraving on agate via X-ray microtomography. <i>Optics and Laser Technology</i> , 2018, 104, 56-64.	4.6	12
21	Optimization of digital image processing to determine quantum dots™ height and density from atomic force microscopy. <i>Ultramicroscopy</i> , 2018, 184, 234-241.	1.9	8
22	Porosity Characterization of Iron Ore Pellets by X-Ray Microtomography. <i>Materials Research</i> , 2018, 21, .	1.3	23
23	Characterization of iron ore pellets by multimodal microscopy and image analysis. <i>REM: International Engineering Journal</i> , 2018, 71, 209-215.	0.4	1
24	Chemical induced demineralization study in cortical bone. <i>Journal of Instrumentation</i> , 2018, 13, C05010-C05010.	1.2	3
25	Automatic characterization of iron ore by digital microscopy and image analysis. <i>Journal of Materials Research and Technology</i> , 2018, 7, 376-380.	5.8	15
26	Bionanocomposite Bamboo: A Regioselective Impregnation with Silver Nanofillers for Antifungal Application. , 2018, , .		0
27	From Historical Backgrounds to Recent Advances in 3D Characterization of Materials: An Overview. <i>Jom</i> , 2017, 69, 84-92.	1.9	14
28	General evaluation of sand column models by X-ray MicroCT. <i>International Journal of Physical Modelling in Geotechnics</i> , 2017, 17, 91-102.	0.6	0
29	Porosity Assessment for Different Diameters of Coir Lignocellulosic Fibers. <i>Jom</i> , 2017, 69, 2045-2051.	1.9	10
30	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.	1.5	5
31	Colloidal silver nanoparticles: an effective nano-filler material to prevent fungal proliferation in bamboo. <i>RSC Advances</i> , 2016, 6, 98325-98336.	3.6	32
32	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
33	Micro-CT Evaluation of Non-instrumented Canal Areas with Different Enlargements Performed by NiTi Systems. <i>Brazilian Dental Journal</i> , 2015, 26, 624-629.	1.1	70
34	Accumulated Hard Tissue Debris Produced during Reciprocating and Rotary Nickel-Titanium Canal Preparation. <i>Journal of Endodontics</i> , 2015, 41, 676-681.	3.1	81
35	Fe-doped nanostructured titanates synthesized in a single step route. <i>Materials Characterization</i> , 2015, 99, 150-159.	4.4	8
36	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.	5.0	45

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37	Multiscale 3D characterization of discontinuities in underwater wet welds. <i>Materials Characterization</i> , 2015, 107, 358-366.	4.4	22
38	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.	3.1	47
39	Strengthening mechanisms in a pipeline microalloyed steel with a complex microstructure. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 585, 253-260.	5.6	30
40	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.	4.4	23
41	Classification of hematite types in iron ores through circularly polarized light microscopy and image analysis. <i>Minerals Engineering</i> , 2013, 52, 191-197.	4.3	19
42	Influência do molibdênio em propriedades do metal de solda na soldagem molhada com eletrodos Åxi-rutÅlicos. <i>Soldagem E Inspecao</i> , 2013, 18, 102-109.	0.6	3
43	Evaluation of the cross-section of lignocellulosic fibers using digital microscopy and image analysis. <i>Journal of Composite Materials</i> , 2012, 46, 3057-3065.	2.4	15
44	Gold nanoparticles on the surface of soda-lime glass: morphological, linear and nonlinear optical characterization. <i>Optics Express</i> , 2012, 20, 5429.	3.4	31
45	Multimodal Microscopy for Ore Characterization. , 2012, , .		3
46	Lack of correlation between sealer penetration into dentinal tubules and sealability in nonbonded root fillings. <i>International Endodontic Journal</i> , 2012, 45, 642-651.	5.0	61
47	Characterization of Carbonate Rocks through X-Ray Microtomography. , 2012, , 183-188.		0
48	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.	0.5	2
49	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.	1.4	85
50	Smear layer dissolution by peracetic acid of low concentration. <i>International Endodontic Journal</i> , 2011, 44, 485-490.	5.0	46
51	Automatic recognition of hematite grains under polarized reflected light microscopy through image analysis. <i>Minerals Engineering</i> , 2011, 24, 1264-1270.	4.3	24
52	ClassificaÃ£o MORFOLÓGICA de AREIAS RECICLADAS por análise de imagens. <i>Tecnologia Em Metalurgia E Materiais</i> , 2011, 8, 267-272.	0.1	0
53	Microstructural evaluation and flexural mechanical behavior of pultruded glass fiber composites. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 528, 172-179.	5.6	13
54	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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55	Digital microscopy and image analysis applied to composite materials characterization. <i>Revista Materia</i> , 2010, 15, 172-181.	0.2	7
56	CARACTERIZAÇÃfO QUANTITATIVA DE SÃNTER. <i>Tecnologia Em Metalurgia E Materiais</i> , 2010, 7, 12-17.	0.1	1
57	Microstructural Analysis of Composite Tubes through Digital Microscopy. <i>Journal of Composite Materials</i> , 2009, 43, 1857-1868.	2.4	4
58	Measurement of Void Content and Distribution in Composite Materials through Digital Microscopy. <i>Journal of Composite Materials</i> , 2009, 43, 101-112.	2.4	41
59	Twoâ€and threeâ€dimensional profilometer assessments to determine titanium roughness. <i>Scanning</i> , 2009, 31, 174-179.	1.5	17
60	Push-out Bond Strength of Resilon/Epiphany and Resilon/Epiphany Self-Etch to Root Dentin. <i>Journal of Endodontics</i> , 2009, 35, 1048-1050.	3.1	64
61	CARACTERIZAÇÃfO DE PELOTAS DE MINÃ%RIO DE FERRO POR MICROSCOPIA DIGITAL E ANÃŁISE DE IMAGENS. <i>Tecnologia Em Metalurgia E Materiais</i> , 2009, 5, 215-218.	0.1	3
62	CARACTERIZAÇÃfO QUANTITATIVA DE MINÃ%RIO DE FERRO POR MICROSCOPIA CO-LOCALIZADA. <i>Tecnologia Em Metalurgia E Materiais</i> , 2009, 6, 91-95.	0.1	2
63	Co-site Microscopy: Case Studies. <i>Praktische Metallographie/Practical Metallography</i> , 2009, 46, 483-498.	0.3	2
64	High concentration of residual aluminum oxide on titanium surface inhibits extracellular matrix mineralization. <i>Journal of Biomedical Materials Research - Part A</i> , 2008, 87A, 588-597.	4.0	28
65	The effect of the canalâ€filled area on the bacterial leakage of ovalâ€shaped canals. <i>International Endodontic Journal</i> , 2008, 41, 183-190.	5.0	47
66	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, 279-287.	5.0	29
67	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.	3.5	51
68	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.	3.1	69
69	Limited Ability of Three Commonly Used Thermoplasticized Gutta-Percha Techniques in Filling Oval-shaped Canals. <i>Journal of Endodontics</i> , 2008, 34, 1401-1405.	3.1	116
70	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.	1.4	17
71	Dentin Demineralization When Subjected to BioPure MTAD: A Longitudinal and Quantitative Assessment. <i>Journal of Endodontics</i> , 2007, 33, 1364-1368.	3.1	23
72	Evaluation of microstructural parameters of human dentin by digital image analysis. <i>Materials Research</i> , 2007, 10, 153-159.	1.3	13

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73	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.	5.0	18
74	In situ atomic force microscopy and image analysis of dentine submitted to acid etching. <i>Journal of Microscopy</i> , 2007, 225, 236-243.	1.8	2
75	Polymicrobial Leakage of Four Root Canal Sealers at Two Different Thicknesses. <i>Journal of Endodontics</i> , 2006, 32, 998-1001.	3.1	50
76	Análise de um composto complexo por microscopia eletrônica digital e análise de imagens. <i>Revista Materia</i> , 2006, 11, 273-277.	0.2	0
77	Scanner image analysis in the quantification of mercury using spot-tests. <i>Journal of the Brazilian Chemical Society</i> , 2006, 17, 156-161.	0.6	42
78	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.	5.0	83
79	Real-time atomic force microscopy of root dentine during demineralization when subjected to chelating agents. <i>International Endodontic Journal</i> , 2006, 39, 683-692.	5.0	47
80	Analysis of Reactions in the Fe-Zn System through X-rays Diffraction Image Processing. <i>ISIJ International</i> , 2006, 46, 1674-1678.	1.4	0
81	Automatic Classification of Graphite in Cast Iron. <i>Microscopy and Microanalysis</i> , 2005, 11, 363-371.	0.4	22
82	Uptake of Host Cell Transforming Growth Factor- $\beta$ by <i>Trypanosoma cruzi</i> Amastigotes in Cardiomyocytes. <i>American Journal of Pathology</i> , 2005, 167, 993-1003.	3.8	44
83	CARACTERIZAÇÃO DE DUTOS COMPOSTOS POR MICROSCOPIA DIGITAL. <i>Tecnologia Em Metalurgia E Materiais</i> , 2005, 2, 7-11.	0.1	0
84	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.	5.8	20
85	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.	7.8	54
86	Determination of the post-ballistic impact mechanical behavior of a $45^\circ$ glass-fabric composite. <i>Polymer Testing</i> , 2004, 23, 599-604.	4.8	6
87	Analysis of the mechanical behavior and characterization of pultruded glass fiber-resin matrix composites. <i>Composites Science and Technology</i> , 2003, 63, 295-304.	7.8	36
88	Multi-scale analysis of the dielectric properties and structure of resin/carbon-black nanocomposites. <i>EPJ Applied Physics</i> , 2003, 21, 17-26.	0.7	14
89	In Situ observation of phase transformations in the Fe-Zn system. <i>Materials Research</i> , 2003, 6, 529-533.	1.3	2
90	Uncertainty evaluation of metallographic measurements by image analysis and thermodynamic modeling. <i>Materials Characterization</i> , 2001, 47, 219-226.	4.4	15

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91	A low-cost non instrumental method for semiquantitative determination of mercury in fish. Fresenius' Journal of Analytical Chemistry, 2000, 366, 461-465.	1.5	16
92	Magic-Size Equilibrium Shapes of Nanoscale Pb Inclusions in Al. Physical Review Letters, 1997, 78, 471-474.	7.8	101
93	A pattern recognition technique for the analysis of grain boundary structure by HREM. Ultramicroscopy, 1996, 62, 15-27.	1.9	26
94	Quantification of the modulated structures in TiPdCr alloys. Journal of Microscopy, 1995, 180, 51-60.	1.8	5
95	Assessment of specimen noise in HREM images of simple structures. Ultramicroscopy, 1993, 50, 255-262.	1.9	17
96	Color centers photomasks produced by electron-beam lithography. , 1992, 1674, 552.		1
97	Photoluminescence of LiF crystal colored by a focused electron beam. Optics Communications, 1992, 94, 139-142.	2.1	40
98	Intensity quenching of the F3+colour centre emission in lithium fluoride. Journal Physics D: Applied Physics, 1991, 24, 1811-1815.	2.8	13
99	Electron-beam production of colour centres on alkali halide crystals and films. Nuclear Instruments & Methods in Physics Research B, 1988, 32, 222-224.	1.4	24
100	Paraelastic behavior of potassium cyanide. Solid State Communications, 1986, 59, 717-719.	1.9	0
101	Face detector combining eigenfaces, neural network and bootstrap. , 0, , .		0
102	Pattern recognition in the characterization of the mesostructure of bamboo. , 0, , .		0
103	Characterization of Carbonate Rocks through X-Ray Microtomography. , 0, , 183-188.		0