

Frédéric Cuisinier

List of Publications by Year in descending order

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113
papers

5,226
citations

126907

33
h-index

88630

70
g-index

115
all docs

115
docs citations

115
times ranked

5853
citing authors

#	ARTICLE	IF	CITATIONS
1	Buildup Mechanism for Poly(L-lysine)/Hyaluronic Acid Films onto a Solid Surface. <i>Langmuir</i> , 2001, 17, 7414-7424.	3.5	647
2	In Situ Determination of the Structural Properties of Initially Deposited Polyelectrolyte Multilayers. <i>Langmuir</i> , 2000, 16, 1249-1255.	3.5	569
3	Comparison of the Structure of Polyelectrolyte Multilayer Films Exhibiting a Linear and an Exponential Growth Regime: An in Situ Atomic Force Microscopy Study. <i>Macromolecules</i> , 2002, 35, 4458-4465.	4.8	478
4	Polyetheretherketone (PEEK) for medical applications. <i>Journal of Materials Science: Materials in Medicine</i> , 2016, 27, 118.	3.6	372
5	Protein Adsorption onto Auto-Assembled Polyelectrolyte Films. <i>Langmuir</i> , 2001, 17, 878-882.	3.5	199
6	Protein Interactions with Polyelectrolyte Multilayers: Interactions between Human Serum Albumin and Polystyrene Sulfonate/Polyallylamine Multilayers. <i>Biomacromolecules</i> , 2000, 1, 674-687.	5.4	182
7	Human osteoblast response to pulsed laser deposited calcium phosphate coatings. <i>Biomaterials</i> , 2005, 26, 2381-2389.	11.4	180
8	Determination of structural parameters characterizing thin films by optical methods: A comparison between scanning angle reflectometry and optical waveguide lightmode spectroscopy. <i>Journal of Chemical Physics</i> , 2001, 115, 1086-1094.	3.0	132
9	Influence of Polyelectrolyte Multilayer Films on Calcium Phosphate Nucleation. <i>Journal of the American Chemical Society</i> , 2000, 122, 8998-9005.	13.7	104
10	Human Serum Albumin Self-Assembly on Weak Polyelectrolyte Multilayer Films Structurally Modified by pH Changes. <i>Langmuir</i> , 2004, 20, 5575-5582.	3.5	100
11	Protein adsorption onto auto-assembled polyelectrolyte films. <i>New Biotechnology</i> , 2002, 19, 273-280.	2.7	91
12	First Experimental Evidence for Human Dentine Crystal Formation Involving Conversion of Octacalcium Phosphate to Hydroxyapatite. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1998, 54, 1377-1381.	2.5	89
13	Operational definition of Active and Healthy Ageing (AHA): A conceptual framework. <i>Journal of Nutrition, Health and Aging</i> , 2015, 19, 955-960.	3.3	85
14	Adhesion and Proliferation of Human Mesenchymal Stem Cells from Dental Pulp on Porous Silicon Scaffolds. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 1719-1728.	8.0	62
15	Phase Relations Between β -Tricalcium Phosphate and Hydroxyapatite with Manganese(II): Structural and Spectroscopic Properties. <i>European Journal of Inorganic Chemistry</i> , 2006, 2006, 1460-1465.	2.0	56
16	Tailoring GaN Semiconductor Surfaces with Biomolecules. <i>Journal of Physical Chemistry B</i> , 2008, 112, 8799-8805.	2.6	55
17	Measurement of film thickness up to several hundreds of nanometers using optical waveguide lightmode spectroscopy. <i>Biosensors and Bioelectronics</i> , 2004, 20, 553-561.	10.1	54
18	Human amelogenesis I: High resolution electron microscopy study of ribbon-like crystals. <i>Calcified Tissue International</i> , 1992, 51, 259-268.	3.1	52

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19	High-resolution electron-microscopic study of the relationship between human enamel and dentin crystals at the dentinoenamel junction. <i>Cell and Tissue Research</i> , 2000, 301, 389-395.	2.9	52
20	TEM study of the morphology of Mn ²⁺ -doped calcium hydroxyapatite and β -tricalcium phosphate. <i>Journal of Inorganic Biochemistry</i> , 2008, 102, 311-317.	3.5	52
21	Functional mapping of human sound and carious enamel and dentin with Raman spectroscopy. <i>Journal of Biophotonics</i> , 2013, 6, 765-774.	2.3	51
22	Transmission electron microscopy of lattice planes in human alveolar bone apatite crystals. <i>Calcified Tissue International</i> , 1987, 40, 332-338.	3.1	49
23	Comparability of Raman Spectroscopic Configurations: A Large Scale Cross-Laboratory Study. <i>Analytical Chemistry</i> , 2020, 92, 15745-15756.	6.5	46
24	Confocal Raman microscopic analysis of the zirconia/feldspathic ceramic interface. <i>Dental Materials</i> , 2012, 28, 661-671.	3.5	45
25	Peptides for the Biofunctionalization of Silicon for Use in Optical Sensing with Porous Silicon Microcavities. <i>Advanced Functional Materials</i> , 2011, 21, 2003-2011.	14.9	43
26	Initial stem cell adhesion on porous silicon surface: molecular architecture of actin cytoskeleton and filopodial growth. <i>Nanoscale Research Letters</i> , 2014, 9, 564.	5.7	40
27	Allogenic banking of dental pulp stem cells for innovative therapeutics. <i>World Journal of Stem Cells</i> , 2015, 7, 1010-21.	2.8	40
28	Calcium phosphate thin films synthesized by pulsed laser deposition: Physico-chemical characterization and in vitro cell response. <i>Applied Surface Science</i> , 2005, 248, 344-348.	6.1	37
29	Factors affecting the viscosity of sodium hypochlorite and their effect on irrigant flow. <i>International Endodontic Journal</i> , 2013, 46, 954-961.	5.0	37
30	High Resolution Electron Microscopy: Structure and Growth Mechanisms of Human Dentin Crystals. <i>Journal of Dental Research</i> , 1997, 76, 895-904.	5.2	36
31	Label-free detection of anticancer drug paclitaxel in living cells by confocal Raman microscopy. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	35
32	Human amelogenesis: high resolution electron microscopy of nanometer-sized particles. <i>Cell and Tissue Research</i> , 1993, 273, 175-182.	2.9	34
33	Wetting Properties and Critical Micellar Concentration of Benzalkonium Chloride Mixed in Sodium Hypochlorite. <i>Journal of Endodontics</i> , 2012, 38, 1525-1529.	3.1	34
34	Selection and mass spectrometry characterization of peptides targeting semiconductor surfaces. <i>Biotechnology and Bioengineering</i> , 2009, 104, 1121-1131.	3.3	33
35	Operational Definition of Active and Healthy Aging (AHA): The European Innovation Partnership (EIP) on AHA Reference Site Questionnaire: Montpellier October 2011, 2014, Lisbon July 2, 2015. <i>Journal of the American Medical Directors Association</i> , 2015, 16, 1020-1026.	2.5	33
36	Pulp Regeneration Concepts for Nonvital Teeth: From Tissue Engineering to Clinical Approaches. <i>Tissue Engineering - Part B: Reviews</i> , 2018, 24, 419-442.	4.8	32

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37	Influence of Hydrolyzed Polyacrylamide Hydrogel Stiffness on Podocyte Morphology, Phenotype, and Mechanical Properties. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 32623-32632.	8.0	32
38	High resolution electron microscopy study of crystal growth mechanisms in chicken bone composites. <i>Journal of Crystal Growth</i> , 1995, 156, 443-453.	1.5	31
39	Tunable Protein-Resistance of Polycation-Terminated Polyelectrolyte Multilayers. <i>Biomacromolecules</i> , 2009, 10, 2275-2283.	5.4	31
40	Chairside Computer-Aided Design/Computer-Aided Manufacture All-Ceramic Crown and Endocrown Restorations: A 7-Year Survival Rate Study. <i>International Journal of Prosthodontics</i> , 2017, 30, 556-560.	1.7	31
41	In vitro investigation of fluorescence of carious dentin observed with a Soprolife® camera. <i>Clinical Oral Investigations</i> , 2013, 17, 757-763.	3.0	30
42	The essential oil of Algerian <i>Ammodaucus leucotrichus</i> Coss. & Dur. and its effect on the cholinesterase and monoamine oxidase activities. <i>FARMACIA</i> , 2018, 130, 1-5.	2.2	30
43	Assessing Cobalt Metal Nanoparticles Uptake by Cancer Cells Using Live Raman Spectroscopy. <i>International Journal of Nanomedicine</i> , 2020, Volume 15, 7051-7062.	6.7	30
44	Adhesion of hard spheres under the influence of double-layer, van der Waals, and gravitational potentials at a solid/liquid interface.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1994, 91, 3004-3008.	7.1	27
45	Investigation of the <i>in vitro</i> photocatalytic antibacterial activity of nanocrystalline TiO ₂ and coupled TiO ₂ /Ag containing copolymer on the surface of medical grade titanium. <i>Journal of Biomaterials Applications</i> , 2016, 31, 55-67.	2.4	27
46	Dental pulp stem cells used to deliver the anticancer drug paclitaxel. <i>Stem Cell Research and Therapy</i> , 2018, 9, 103.	5.5	27
47	Reparative Mineralized Tissue Characterization after Direct Pulp Capping with Calcium-Silicate-Based Cements. <i>Materials</i> , 2019, 12, 2102.	2.9	24
48	Bone mineralization. <i>Current Opinion in Solid State and Materials Science</i> , 1996, 1, 436-439.	11.5	23
49	Proteomic Studies of Saliva: A Proposal for a Standardized Handling of Clinical Samples. <i>Clinical Proteomics</i> , 2007, 3, 13-21.	2.1	23
50	Confocal Raman data analysis enables identifying apoptosis of MCF-7 cells caused by anticancer drug paclitaxel. <i>Journal of Biomedical Optics</i> , 2013, 18, 056010.	2.6	23
51	Structure of initial crystals formed during human amelogenesis. <i>Journal of Crystal Growth</i> , 1992, 116, 314-318.	1.5	22
52	Guided wave sensing of polyelectrolyte multilayers. <i>Applied Physics Letters</i> , 2006, 88, 111102.	3.3	21
53	Cross striation in human permanent and deciduous enamel measured with confocal Raman microscopy. <i>Journal of Raman Spectroscopy</i> , 2019, 50, 548-556.	2.5	20
54	Compositional variations in apatites with respect to preferential ionic extraction. <i>Ultramicroscopy</i> , 1991, 36, 297-305.	1.9	19

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55	Apatite precipitation on a novel fast-setting calcium silicate cement containing fluoride. <i>Acta Biomaterialia Odontologica Scandinavica</i> , 2016, 2, 68-78.	4.0	19
56	Porous silicon microcavities redefine colorimetric ELISA sensitivity for ultrasensitive detection of autoimmune antibodies. <i>Sensors and Actuators B: Chemical</i> , 2018, 272, 211-218.	7.8	19
57	HRTEM Study of Biological Crystal Growth Mechanisms in the Vicinity of Implanted Synthetic Hydroxyapatite Crystals. <i>Journal of Dental Research</i> , 1997, 76, 682-687.	5.2	18
58	Multiphoton imaging of the dentine-enamel junction. <i>Journal of Biophotonics</i> , 2013, 6, 330-337.	2.3	18
59	Insights on the Facet Specific Adsorption of Amino Acids and Peptides toward Platinum. <i>Journal of Chemical Information and Modeling</i> , 2013, 53, 3273-3279.	5.4	18
60	Operative definition of active and healthy ageing (AHA): Meeting report. Montpellier October 20-21, 2014. <i>European Geriatric Medicine</i> , 2015, 6, 196-200.	2.8	18
61	Carbonated hydroxyapatites precipitated in the presence of Ti. <i>Journal of Inorganic Biochemistry</i> , 2000, 81, 57-63.	3.5	17
62	Molecular structural analysis of carious lesions using micro-Raman spectroscopy. <i>European Journal of Oral Sciences</i> , 2012, 120, 444-451.	1.5	17
63	Heterogeneous nucleation of calcium phosphate salts at a solid/liquid interface examined by scanning angle reflectometry. <i>Journal of Crystal Growth</i> , 1999, 197, 927-938.	1.5	16
64	Confocal Raman microscopy and SEM/EDS investigations of the interface between the zirconia core and veneering ceramic: the influence of a liner and regeneration firing. <i>Journal of Materials Science: Materials in Medicine</i> , 2012, 23, 1343-1353.	3.6	16
65	Secnidazole concentrations in plasma and crevicular fluid after a single oral dose. <i>Journal of Clinical Periodontology</i> , 1993, 20, 505-508.	4.9	15
66	Calcium uptake by casein embedded in polyelectrolyte multilayer. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2009, 343, 118-126.	4.7	15
67	Phages recognizing the Indium Nitride semiconductor surface via their peptides. <i>Journal of Peptide Science</i> , 2011, 17, 143-147.	1.4	15
68	SVSVGMKPSRP: a broad range adhesion peptide. <i>Biomedizinische Technik</i> , 2012, 57, 481-9.	0.8	14
69	Influence of Diffusion and Gravity on the Adhesion of a Two-component Mixture of Hard Spheres on a Flat Surface. <i>Journal of Theoretical Biology</i> , 1993, 163, 457-471.	1.7	13
70	Structural analyses of carbonate-containing apatite samples related to mineralized tissues. <i>Journal of Materials Science: Materials in Medicine</i> , 1995, 6, 85-89.	3.6	13
71	Assembly of Purple Membranes on Polyelectrolyte Films. <i>Langmuir</i> , 2009, 25, 5159-5167.	3.5	13
72	A New Rat Model for Translational Research in Bone Regeneration. <i>Tissue Engineering - Part C: Methods</i> , 2016, 22, 125-131.	2.1	13

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73	Comparative mechanical behavior of dentin enamel and dentin ceramic junctions assessed by speckle interferometry (SI). <i>Dental Materials</i> , 2012, 28, e229-e238.	3.5	12
74	Effectiveness of anchorage with temporary anchorage devices during anterior maxillary tooth retraction: A randomized clinical trial. <i>Korean Journal of Orthodontics</i> , 2019, 49, 279.	2.3	12
75	Biomimetic organic-inorganic nanocomposite coatings for titanium implants. <i>In vitro</i> and <i>in vivo</i> biological testing. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 95A, 691-700.	4.0	11
76	Synthesis, characterization and high temperature analysis of Al-containing hydroxyapatites. <i>Journal of Crystal Growth</i> , 1997, 172, 219-225.	1.5	10
77	Structural Characterization of Self-Assembled Polypeptide Films on Titanium and Glass Surfaces by Atomic Force Microscopy. <i>Biomacromolecules</i> , 2005, 6, 3345-3350.	5.4	10
78	Differential Effect of Curcumin on the Nanomechanics of Normal and Cancerous Mammalian Epithelial Cells. <i>Cell Biochemistry and Biophysics</i> , 2013, 65, 399-411.	1.8	10
79	Intraradicular dentine silanization by a new silicon-based endodontic sealer. <i>International Journal of Adhesion and Adhesives</i> , 2016, 69, 115-124.	2.9	10
80	High resolution electron microscopic study of a Ga-containing carbonate apatite. <i>Journal of Crystal Growth</i> , 1992, 125, 1-6.	1.5	9
81	Concordance study between regular face-to-face dental diagnosis and dental teleradiology using fluorescence. <i>Journal of Telemedicine and Telecare</i> , 2020, 27, 1357633X1989411.	2.7	9
82	Porphyrin and Pentosidine Involvement in the Red Fluorescence of Enamel and Dentin Caries. <i>International Journal of Experimental Dental Science</i> , 2016, 5, 1-10.	0.1	9
83	Observation of the loss of the hydroxyapatite sixfold symmetry in a human fetal tooth enamel crystal. <i>Journal of Microscopy</i> , 1993, 170, 147-154.	1.8	8
84	A possible role of collagen fibrils in the process of calcification observed in the capsule of the pineal gland in aging rats. <i>Cell and Tissue Research</i> , 1997, 288, 435-439.	2.9	8
85	Tightening of healing abutments: influence of torque on bacterial proliferation risk, an <i>in vitro</i> investigation. <i>Biomedizinische Technik</i> , 2014, 59, 495-500.	0.8	8
86	Benefits of mineralized bone cortical allograft for immediate implant placement in extraction sites: an <i>in vivo</i> study in dogs. <i>Journal of Periodontal and Implant Science</i> , 2016, 46, 291.	2.0	8
87	Granular Structure of Self-Assembled PAA/PAH and PSS/PAH Nascent Films Imaged <i>in situ</i> by LC-AFM. <i>Journal of Physical Chemistry B</i> , 2008, 112, 6322-6330.	2.6	7
88	Matrix metalloproteinase sensing via porous silicon microcavity devices functionalized with human antibodies. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011, 8, 1888-1892.	0.8	7
89	Multiphoton Microscopy for Caries Detection with ICDAS Classification. <i>Caries Research</i> , 2018, 52, 359-366.	2.0	7
90	Influence of temperature and relative humidity on dentin and enamel bonding: a critical review of the literature. Part 1. Laboratory studies. <i>Journal of Adhesive Dentistry</i> , 2012, 14, 433-46.	0.5	7

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91	Modeling colorant leakage techniques: Application to endodontics. <i>Dental Materials</i> , 2010, 26, 881-890.	3.5	6
92	Method to evaluate the noise of 3D intra-oral scanner. <i>PLoS ONE</i> , 2017, 12, e0182206.	2.5	6
93	Formation and assessment of enamel subsurface lesions <i>in vitro</i> . <i>Journal of Oral Science</i> , 2019, 61, 454-458.	1.7	6
94	Confocal Raman data analysis of tufts and spindles at the human dentin-enamel junction. <i>Archives of Oral Biology</i> , 2021, 131, 105262.	1.8	6
95	Self-assembled polyelectrolyte nanorings observed by liquid-cell AFM. <i>Journal of Physics Condensed Matter</i> , 2004, 16, S2109-S2117.	1.8	5
96	Development of a quantitative preclinical screening model for implant osseointegration in rat tail vertebra. <i>Clinical Oral Investigations</i> , 2019, 23, 2959-2973.	3.0	5
97	Adsorption of proteins on TiO ₂ particles influences their aggregation and cell penetration. <i>Food Chemistry</i> , 2021, 360, 130003.	8.2	5
98	Root canal hydrophobization by dentinal silanization: Improvement of silicon-based endodontic treatment tightness. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2013, 101B, 721-728.	3.4	4
99	Glass Ceramic CAD/CAM crowns and severely altered posterior teeth: a three levels study. <i>Journal of Materials Science: Materials in Medicine</i> , 2017, 28, 145.	3.6	4
100	Trans-Cinnamaldehyde Eluting Porous Silicon Microparticles Mitigate Cariogenic Biofilms. <i>Pharmaceutics</i> , 2022, 14, 1428.	4.5	4
101	Endoscopic System Based on Intraoral Camera and Image Processing. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 1026-1033.	4.2	3
102	Performance of Fluorescence-based Systems in Early Caries Detection: A Public Health Issue. <i>Journal of Contemporary Dental Practice</i> , 2019, 20, 1126-1131.	0.5	3
103	Fabrication of Radio-Opaque and Macroporous Injectable Calcium Phosphate Cement. <i>ACS Applied Bio Materials</i> , 2022, 5, 3075-3085.	4.6	3
104	Morphological differences between normal and cancerous mammalian cells via multitechnique microscopic studies. , 2010, , .		2
105	Chemical treatment of the intra-canal dentin surface: a new approach to modify dentin hydrophobicity. <i>Journal of Applied Oral Science</i> , 2013, 21, 63-67.	1.8	2
106	Development and characterization of ultra-porous silica films made by the sol-gel method. Application to biosensing. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 114, 435-443.	2.3	1
107	Stem cells as anticancer drug carrier to reduce the chemotherapy side effect. , 2017, , .		1
108	Engineering Solutions for Cranio-Maxillo-Facial Rehabilitation and Oro-Dental Healthcare. <i>Journal of Healthcare Engineering</i> , 2019, 2019, 1-3.	1.9	1

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109	Glucose Oxidase Adsorption on Sequential Adsorbed Polyelectrolyte Films Studied by Spectroscopic Techniques. AIP Conference Proceedings, 2005, , .	0.4	0
110	Observation of oxygen inhibited layer of organic dental resin by confocal Raman-microscopy. E-Polymers, 2012, 12, .	3.0	0
111	Bi-fonctionnal Pepides to Promote Epithelial Sealing on Ti and Ti6Al4V. , 2013, , .		0
112	Method to approximate intra oral scanner noise and resolution. , 2019, , .		0
113	Confocal Raman microscopy and non linear microscopy to study human enamel incipient lesions. , 2019, , .		0