

# Pascale Chevallier

## List of Publications by Year in descending order

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46  
papers

914  
citations

394286

19  
h-index

477173

29  
g-index

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46  
docs citations

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times ranked

1586  
citing authors

#	ARTICLE	IF	CITATIONS
1	Polydopamine as an intermediate layer for silver and hydroxyapatite immobilisation on metallic biomaterials surface. <i>Materials Science and Engineering C</i> , 2013, 33, 4715-4724.	3.8	73
2	Engineering Surfaces for Bioconjugation: Developing Strategies and Quantifying the Extent of the Reactions. <i>Bioconjugate Chemistry</i> , 2004, 15, 1146-1156.	1.8	51
3	In vitro Biological Performances of Phosphorylcholine-Grafted ePTFE Prostheses through RFGD Plasma Techniques. <i>Macromolecular Bioscience</i> , 2005, 5, 829-839.	2.1	50
4	In vitro degradation behavior of Fe-20Mn-1.2C alloy in three different pseudo-physiological solutions. <i>Materials Science and Engineering C</i> , 2016, 61, 564-573.	3.8	50
5	Blood protein adsorption on sulfonated chitosan and $\beta$ -carrageenan films. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 111, 719-725.	2.5	49
6	Plasma functionalization of poly(vinyl alcohol) hydrogel for cell adhesion enhancement. <i>Biomatter</i> , 2013, 3, .	2.6	45
7	Oxidized bacterial cellulose membrane as support for enzyme immobilization: properties and morphological features. <i>Cellulose</i> , 2020, 27, 3055-3083.	2.4	45
8	Sulfonated chitosan and dopamine based coatings for metallic implants in contact with blood. <i>Materials Science and Engineering C</i> , 2017, 72, 682-691.	3.8	42
9	Antibacterial Coatings Based on Chitosan for Pharmaceutical and Biomedical Applications. <i>Current Pharmaceutical Design</i> , 2018, 24, 866-885.	0.9	42
10	Silver-based antibacterial strategies for healthcare-associated infections: Processes, challenges, and regulations. An integrated review. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2020, 24, 102142.	1.7	41
11	A new composite hydrogel combining the biological properties of collagen with the mechanical properties of a supramolecular scaffold for bone tissue engineering. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, e1489-e1500.	1.3	37
12	Enhancing the functionality of cotton fabric by physical and chemical pre-treatments: A comparative study. <i>Carbohydrate Polymers</i> , 2016, 147, 28-36.	5.1	34
13	Coronary stent CD31-mimetic coating favours endothelialization and reduces local inflammation and neointimal development <i>in vivo</i> . <i>European Heart Journal</i> , 2021, 42, 1760-1769.	1.0	34
14	The use of multiple pseudo-physiological solutions to simulate the degradation behavior of pure iron as a metallic resorbable implant: a surface-characterization study. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 19637-19646.	1.3	32
15	Effect of Poly-L-Lysine coating on titanium osseointegration: from characterization to in vivo studies. <i>Journal of Oral Implantology</i> , 2015, 41, 626-631.	0.4	28
16	Biomimetic coating of cross-linked gelatin to improve mechanical and biological properties of electrospun PET: A promising approach for small caliber vascular graft applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 2405-2415.	2.1	24
17	Toward High-Performance Coatings for Biomedical Devices: Study on Plasma-Deposited Fluorocarbon Films and Ageing in PBS. <i>Materials</i> , 2010, 3, 1515-1532.	1.3	22
18	On the Growth of Fluorocarbon Thin Films Deposited on Plasma-Etched 316L Stainless Steel. <i>Plasma Processes and Polymers</i> , 2010, 7, 309-317.	1.6	21

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19	Heparin-Modified Collagen Gels for Controlled Release of Pleiotrophin: Potential for Vascular Applications. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 74.	2.0	20
20	Understanding the effect of the reinforcement addition on corrosion behavior of Fe/Mg <sub>2</sub> Si composites for biodegradable implant applications. <i>Materials Chemistry and Physics</i> , 2019, 223, 771-778.	2.0	20
21	Covalent Grafting of Chitosan on Plasma-Treated Polytetrafluoroethylene Surfaces for Biomedical Applications. <i>Journal of Biomaterials and Tissue Engineering</i> , 2014, 4, 915-924.	0.0	16
22	A Novel Strategy to Coat Dopamine-Functionalized Titanium Surfaces With Agarose-Based Hydrogels for the Controlled Release of Gentamicin. <i>Frontiers in Cellular and Infection Microbiology</i> , 2021, 11, 678081.	1.8	14
23	Luminal Plasma Treatment for Small Diameter Polyvinyl Alcohol Tubular Scaffolds. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 117.	2.0	12
24	Surface processing for iron-based degradable alloys: A preliminary study on the importance of acid pickling. <i>Bioactive Materials</i> , 2022, 11, 166-180.	8.6	11
25	Characterization of Amorphous Oxide Nano-Thick Layers on 316L Stainless Steel by Electron Channeling Contrast Imaging and Electron Backscatter Diffraction. <i>Microscopy and Microanalysis</i> , 2016, 22, 997-1006.	0.2	10
26	Extremely Small Iron Oxide Nanoparticles Stabilized with Catechol-Functionalized Multidentate Block Copolymer for Enhanced MRI. <i>ChemistrySelect</i> , 2016, 1, 4087-4091.	0.7	9
27	On the adhesion of diamond-like carbon coatings deposited by low-pressure plasma on 316L stainless steel. <i>Surface and Interface Analysis</i> , 2021, 53, 658-671.	0.8	9
28	Evaluating Poly(Acrylamide-co Acrylic Acid) Hydrogels Stress Relaxation to Direct the Osteogenic Differentiation of Mesenchymal Stem Cells. <i>Macromolecular Bioscience</i> , 2021, 21, 2100069.	2.1	8
29	In-Situ One-Step Direct Loading of Agents in Poly(acrylic acid) Coating Deposited by Aerosol-Assisted Open-Air Plasma. <i>Polymers</i> , 2021, 13, 1931.	2.0	8
30	Quercetin-Crosslinked Chitosan Films for Controlled Release of Antimicrobial Drugs. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, 814162.	2.0	8
31	Development, Validation, and Performance of Chitosan-Based Coatings Using Catechol Coupling. <i>Macromolecular Bioscience</i> , 2020, 20, e1900253.	2.1	6
32	Low-pressure plasma treatment for direct amination of L605 CoCr alloy for the further covalent grafting of molecules. <i>Plasma Processes and Polymers</i> , 2018, 15, 1700214.	1.6	5
33	Development of Multifunctional Materials Based on Poly(ether ether ketone) with Improved Biological Performances for Dental Applications. <i>Materials</i> , 2021, 14, 1047.	1.3	5
34	Efficient extraction of a high molecular weight ulvan from stranded <i>Ulva</i> sp. biomass: application on the active biomembrane synthesis. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 3975-3985.	2.9	5
35	Polydopamine-modified interface improves the immobilization of natural bioactive-dye onto textile and enhances antifungal activity. <i>Biointerphases</i> , 2020, 15, 041011.	0.6	4
36	Investigation of 3-aminopropyltrimethoxysilane for direct deposition of thin films containing primary amine groups by open-air plasma jets. <i>Plasma Processes and Polymers</i> , 2022, 19, .	1.6	4

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37	Arginine-glycine-glutamine and serine-isoleucine-lysine-valine-alanine-valine modified poly(l-lactide) films: Bioactive molecules used for surface grafting to guide cellular contractile phenotype. <i>Biointerphases</i> , 2014, 9, 029002.	0.6	3
38	Oxidative Plasma Treatment of Fluorocarbon Surfaces for Blood-Contacting Applications. <i>Materials Science Forum</i> , 2018, 941, 2528-2533.	0.3	3
39	Nano-Thick Amorphous Oxide Layer Produced by Plasma on Type 316L Stainless Steel for Improved Corrosion Resistance Under Plastic Deformation. <i>Corrosion</i> , 2018, 74, 1011-1022.	0.5	3
40	Comparison of the linking arm effect on the biological performance of a CD31 agonist directly grafted on L605 CoCr alloy by a plasma-based multistep strategy. <i>Biointerphases</i> , 2019, 14, 051009.	0.6	3
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