

Antoine Venault

List of Publications by Year in descending order

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201674

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#	ARTICLE	IF	CITATIONS
1	Poly(vinylidene fluoride)/poly(styrene-co-acrylic acid) nanofibers as potential materials for blood separation. <i>Journal of Membrane Science</i> , 2022, 641, 119881.	8.2	8
2	A Biofouling Resistant Zwitterionic Polysulfone Membrane Prepared by a Dual-Bath Procedure. <i>Membranes</i> , 2022, 12, 69.	3.0	7
3	Facile zwitterionization of polyvinylidene fluoride microfiltration membranes for biofouling mitigation. <i>Journal of Membrane Science</i> , 2022, 648, 120348.	8.2	4
4	Dopamine-Induced Surface Zwitterionization of Expanded Poly(tetrafluoroethylene) for Constructing Thermostable Bioinert Materials. <i>ACS Biomaterials Science and Engineering</i> , 2022, 8, 1532-1543.	5.2	3
5	Surface PEGylation via Ultrasonic Spray Deposition for the Biofouling Mitigation of Biomedical Interfaces. <i>ACS Applied Bio Materials</i> , 2022, 5, 225-234.	4.6	2
6	A novel method to immobilize zwitterionic copolymers onto PVDF hollow fiber membrane surface to obtain antifouling membranes. <i>Journal of Membrane Science</i> , 2022, 656, 120592.	8.2	10
7	Strategy to prepare skin-free and macrovoid-free polysulfone membranes via the NIPS process. <i>Journal of Membrane Science</i> , 2022, 655, 120597.	8.2	19
8	Using the dimethyl sulfoxide green solvent for the making of antifouling PEGylated membranes by the vapor-induced phase separation process. , 2022, 2, 100025.		3
9	Engineering sterilization-resistant and fouling-resistant porous membranes by the vapor-induced phase separation process using a sulfobetaine methacrylamide amphiphilic derivative. <i>Journal of Membrane Science</i> , 2022, 658, 120760.	8.2	6
10	Zwitterionic PMMA-r-PEGMA-r-PSBMA copolymers for the formation of anti-biofouling bicontinuous membranes by the VIPS process. <i>Journal of Membrane Science</i> , 2021, 618, 118753.	8.2	21
11	Failure of sulfobetaine methacrylate as antifouling material for steam-sterilized membranes and a potential alternative. <i>Journal of Membrane Science</i> , 2021, 620, 118929.	8.2	8
12	Functionalized porous filtration media for gravity-driven filtration: Reviewing a new emerging approach for oil and water emulsions separation. <i>Separation and Purification Technology</i> , 2021, 259, 117983.	7.9	49
13	Superhydrophobic SiO ₂ /poly(vinylidene fluoride) composite membranes for the gravity-driven separation of drug enantiomers from emulsions. <i>Journal of Membrane Science</i> , 2021, 618, 118737.	8.2	18
14	Fundamentals of nonsolvent-induced phase separation. , 2021, , 13-56.		10
15	Zwitterionized Nanofibrous Poly(vinylidene fluoride) Membranes for Improving the Healing of Diabetic Wounds. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 562-576.	5.2	15
16	Thermally Stable Bioinert Zwitterionic Sulfobetaine Interfaces Tolerated in the Medical Sterilization Process. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 1031-1045.	5.2	10
17	Thermostable antifouling zwitterionic vapor-induced phase separation membranes. <i>Journal of Membrane Science</i> , 2021, 627, 119227.	8.2	8
18	Bi-continuous positively-charged PVDF membranes formed by a dual-bath procedure with bacteria killing/release ability. <i>Chemical Engineering Journal</i> , 2021, 417, 128910.	12.7	14

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19	One-step entrapment of a PS-PEGMA amphiphilic copolymer on the outer surface of a hollow fiber membrane via TIPS process using triple-orifice spinneret. <i>Journal of Membrane Science</i> , 2021, 638, 119712.	8.2	19
20	Fluorine-free and hydrophobic/oleophilic PMMA/PDMS electrospun nanofibrous membranes for gravity-driven removal of water from oil-rich emulsions. <i>Separation and Purification Technology</i> , 2021, 279, 119720.	7.9	24
21	Zwitterionic electrospun PVDF fibrous membranes with a well-controlled hydration for diabetic wound recovery. <i>Journal of Membrane Science</i> , 2020, 598, 117648.	8.2	44
22	Investigating the potential of membranes formed by the vapor induced phase separation process. <i>Journal of Membrane Science</i> , 2020, 597, 117601.	8.2	110
23	A bio-inert and thermostable zwitterionic copolymer for the surface modification of PVDF membranes. <i>Journal of Membrane Science</i> , 2020, 598, 117655.	8.2	20
24	Reducing the pathogenicity of wastewater with killer vapor-induced phase separation membranes. <i>Journal of Membrane Science</i> , 2020, 614, 118543.	8.2	11
25	Temperature-triggered attachment and detachment of general human bio-foulants on zwitterionic polydimethylsiloxane. <i>Journal of Materials Chemistry B</i> , 2020, 8, 8853-8863.	5.8	4
26	Simultaneous amphiphilic polymer synthesis and membrane functionalization for oil/water separation. <i>Journal of Membrane Science</i> , 2020, 604, 118069.	8.2	12
27	Sulfur-doped g-C ₃ N ₄ nanosheets for photocatalysis: Z-scheme water splitting and decreased biofouling. <i>Journal of Colloid and Interface Science</i> , 2020, 567, 202-212.	9.4	90
28	Bioinert Control of Zwitterionic Poly(ethylene terephthalate) Fibrous Membranes. <i>Langmuir</i> , 2019, 35, 1727-1739.	3.5	16
29	Self-Cleaning Interfaces of Polydimethylsiloxane Grafted with pH-Responsive Zwitterionic Copolymers. <i>Langmuir</i> , 2019, 35, 1357-1368.	3.5	24
30	Designs of Zwitterionic Interfaces and Membranes. <i>Langmuir</i> , 2019, 35, 1714-1726.	3.5	65
31	Zwitterionized chitosan based soft membranes for diabetic wound healing. <i>Journal of Membrane Science</i> , 2019, 591, 117319.	8.2	29
32	Tuning the molecular design of random copolymers for enhancing the biofouling mitigation of membrane materials. <i>Journal of Membrane Science</i> , 2019, 588, 117217.	8.2	17
33	Development of PVDF Ultrafiltration Membrane with Zwitterionic Block Copolymer Micelles as a Selective Layer. <i>Membranes</i> , 2019, 9, 93.	3.0	9
34	A zwitterionic interpenetrating network for improving the blood compatibility of polypropylene membranes applied to leukodepletion. <i>Journal of Membrane Science</i> , 2019, 584, 148-160.	8.2	30
35	Toward Antibiofouling PVDF Membranes. <i>Langmuir</i> , 2019, 35, 6782-6792.	3.5	12
36	Adjusting the morphology of poly(vinylidene fluoride-co-hexafluoropropylene) membranes by the VIPS process for efficient oil-rich emulsion separation. <i>Journal of Membrane Science</i> , 2019, 581, 178-194.	8.2	23

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37	Healing kinetics of diabetic wounds controlled with charge-biased hydrogel dressings. Journal of Materials Chemistry B, 2019, 7, 7184-7194.	5.8	12
38	A Nondestructive Surface Zwitterionization of Polydimethylsiloxane for the Improved Human Blood-inert Properties. ACS Applied Bio Materials, 2019, 2, 39-48.	4.6	12
39	Direct in-situ modification of PVDF membranes with a zwitterionic copolymer to form bi-continuous and fouling resistant membranes. Journal of Membrane Science, 2018, 550, 45-58.	8.2	69
40	Zwitterionic bi-continuous membranes from a phosphobetaine copolymer/poly(vinylidene fluoride) blend via VIPS for biofouling mitigation. Journal of Membrane Science, 2018, 550, 377-388.	8.2	27
41	A combined polymerization and self-assembling process for the fouling mitigation of PVDF membranes. Journal of Membrane Science, 2018, 547, 134-145.	8.2	24
42	Introducing a PEGylated diblock copolymer into PVDF hollow-fibers for reducing their fouling propensity. Journal of the Taiwan Institute of Chemical Engineers, 2018, 87, 252-263.	5.3	5
43	Surface zwitterionization of PVDF VIPS membranes for oil and water separation. Journal of Membrane Science, 2018, 563, 54-64.	8.2	44
44	Bio-inert interfaces via biomimetic anchoring of a zwitterionic copolymer on versatile substrates. Journal of Colloid and Interface Science, 2018, 529, 77-89.	9.4	20
45	Controlling the zwitterionization degree of alternate copolymers for minimizing biofouling on PVDF membranes. Journal of Membrane Science, 2018, 565, 119-130.	8.2	22
46	Superior Bioinert Capability of Zwitterionic Poly(4-vinylpyridine propylsulfobetaine) Withstanding Clinical Sterilization for Extended Medical Applications. ACS Applied Materials & Interfaces, 2018, 10, 17771-17783.	8.0	23
47	Graphene oxide/PVDF VIPS membranes for switchable, versatile and gravity-driven separation of oil and water. Journal of Membrane Science, 2018, 565, 131-144.	8.2	44
48	Surface zwitterionization on versatile hydrophobic interfaces via a combined copolymerization/self-assembling process. Journal of Materials Chemistry B, 2018, 6, 4909-4919.	5.8	22
49	Surface charge-bias impact of amine-contained pseudozwitterionic biointerfaces on the human blood compatibility. Colloids and Surfaces B: Biointerfaces, 2017, 151, 372-383.	5.0	20
50	A Zwitterionic-Shielded Carrier with pH-Modulated Reversible Self-Assembly for Gene Transfection. Langmuir, 2017, 33, 1914-1926.	3.5	20
51	Zwitterionic Polyhydroxybutyrate Electrospun Fibrous Membranes with a Compromise of Bioinert Control and Tissue-Cell Growth. Langmuir, 2017, 33, 2460-2471.	3.5	12
52	Developing blood leukocytes depletion membranes from the design of bio-inert PEGylated hydrogel interfaces with surface charge control. Journal of Membrane Science, 2017, 537, 209-219.	8.2	13
53	Epoxytated Zwitterionic Triblock Copolymers Grafted onto Metallic Surfaces for General Biofouling Mitigation. Langmuir, 2017, 33, 9822-9835.	3.5	28
54	Universal Bioinert Control of Polystyrene Interfaces via Hydrophobic-Driven Self-Assembled Surface PEGylation with a Well-Defined Block Sequence. Macromolecular Chemistry and Physics, 2017, 218, 1700102.	2.2	8

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55	Turning Expanded Poly(tetrafluoroethylene) Membranes into Potential Skin Wound Dressings by Grafting a Bioinert Epoxylated PEGMA Copolymer. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 3338-3350.	5.2	20
56	Zwitterionic Modifications for Enhancing the Antifouling Properties of Poly(vinylidene fluoride) Membranes. <i>Langmuir</i> , 2016, 32, 4113-4124.	3.5	46
57	FTIR mapping as a simple and powerful approach to study membrane coating and fouling. <i>Journal of Membrane Science</i> , 2016, 520, 477-489.	8.2	29
58	Antifouling pseudo-zwitterionic poly(vinylidene fluoride) membranes with efficient mixed-charge surface grafting via glow dielectric barrier discharge plasma-induced copolymerization. <i>Journal of Membrane Science</i> , 2016, 516, 13-25.	8.2	83
59	Design of near-superhydrophobic/superoleophilic PVDF and PP membranes for the gravity-driven breaking of water-in-oil emulsions. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 65, 459-471.	5.3	29
60	Antifouling PVDF membrane prepared by VIPS for microalgae harvesting. <i>Chemical Engineering Science</i> , 2016, 142, 97-111.	3.8	32
61	A zwitterionic zP(4VP- <i>r</i> -ODA) copolymer for providing polypropylene membranes with improved hemocompatibility. <i>Journal of Membrane Science</i> , 2016, 501, 68-78.	8.2	29
62	Formation mechanisms of low-biofouling PVDF/F127 membranes prepared by VIPS process. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 62, 297-306.	5.3	20
63	Design of PVDF/PEGMA- <i>b</i> -PS- <i>b</i> -PEGMA membranes by VIPS for improved biofouling mitigation. <i>Journal of Membrane Science</i> , 2016, 510, 355-369.	8.2	40
64	Zwitterionic fibrous polypropylene assembled with amphiphatic carboxybetaine copolymers for hemocompatible blood filtration. <i>Acta Biomaterialia</i> , 2016, 40, 130-141.	8.3	21
65	Structural effect of poly(ethylene glycol) segmental length on biofouling and hemocompatibility. <i>Polymer Journal</i> , 2016, 48, 551-558.	2.7	17
66	Hemocompatible biomaterials of zwitterionic sulfobetaine hydrogels regulated with pH-responsive DMAEMA random sequences. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2016, 65, 65-74.	3.4	19
67	Design of hemocompatible poly(DMAEMA- <i>co</i> -PEGMA) hydrogels for controlled release of insulin. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	2.6	10
68	Stimuli-Responsive and Hemocompatible Pseudozwitterionic Interfaces. <i>Langmuir</i> , 2015, 31, 2861-2869.	3.5	14
69	Hemocompatibility of PVDF/PS- <i>b</i> -PEGMA membranes prepared by LIPS process. <i>Journal of Membrane Science</i> , 2015, 477, 101-114.	8.2	41
70	Bacterial resistance of self-assembled surfaces using PPO- <i>b</i> -PSBMA zwitterionic copolymer " Concomitant effects of surface topography and surface chemistry on attachment of live bacteria. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 118, 254-260.	5.0	59
71	On the adsorption mechanisms of diethylamine by medically-certified activated carbons: Investigation of critical parameters controlling sorption properties. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2014, 45, 1937-1946.	5.3	6
72	Low-biofouling membranes prepared by liquid-induced phase separation of the PVDF/polystyrene- <i>b</i> -poly(ethylene glycol) methacrylate blend. <i>Journal of Membrane Science</i> , 2014, 450, 340-350.	8.2	129

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73	Introducing Mixed-Charge Copolymers As Wound Dressing Biomaterials. ACS Applied Materials & Interfaces, 2014, 6, 9858-9870.	8.0	67
74	Fabricating hemocompatible bi-continuous PEGylated PVDF membranes via vapor-induced phase inversion. Journal of Membrane Science, 2014, 470, 18-29.	8.2	48
75	Bacterial Resistance Control on Mineral Surfaces of Hydroxyapatite and Human Teeth via Surface Charge-Driven Antifouling Coatings. ACS Applied Materials & Interfaces, 2014, 6, 3201-3210.	8.0	101
76	Influence of solvent composition and non-solvent activity on the crystalline morphology of PVDF membranes prepared by VIPS process and on their arising mechanical properties. Journal of the Taiwan Institute of Chemical Engineers, 2014, 45, 1087-1097.	5.3	13
77	Surface self-assembled zwitterionization of poly(vinylidene fluoride) microfiltration membranes via hydrophobic-driven coating for improved blood compatibility. Journal of Membrane Science, 2014, 454, 253-263.	8.2	74
78	Surface Zwitterionization of Expanded Poly(tetrafluoroethylene) Membranes via Atmospheric Plasma-Induced Polymerization for Enhanced Skin Wound Healing. ACS Applied Materials & Interfaces, 2013, 5, 6732-6742.	8.0	76
79	Biofouling-resistance control of expanded poly(tetrafluoroethylene) membrane via atmospheric plasma-induced surface PEGylation. Journal of Membrane Science, 2013, 439, 48-57.	8.2	27
80	A Review on Polymeric Membranes and Hydrogels Prepared by Vapor-Induced Phase Separation Process. Polymer Reviews, 2013, 53, 568-626.	10.9	84
81	Surface Hydrophilicity and Morphology Control of Anti-Biofouling Polysulfone Membranes via Vapor-Induced Phase Separation Processing. Journal of Nanoscience and Nanotechnology, 2013, 13, 2656-2666.	0.9	14
82	Surface anti-biofouling control of PEGylated poly(vinylidene fluoride) membranes via vapor-induced phase separation processing. Journal of Membrane Science, 2012, 423-424, 53-64.	8.2	38
83	PEGylation of anti-biofouling polysulfone membranes via liquid- and vapor-induced phase separation processing. Journal of Membrane Science, 2012, 403-404, 47-57.	8.2	50