Christophe Daniel

List of Publications by Year
in descending order

78 papers	2,267 citations	172207 29 h-index	223531 46 g-index
78 all docs	78 docs citations	78 times ranked	786 citing authors

#	Article	IF	Citations
1	On the definition of thermoreversible gels: the case of syndiotactic polystyrene. Polymer, 1994, 35, 4243-4246.	1.8	128
2	Advanced materials based on polymer cocrystalline forms. Journal of Polymer Science, Part B: Polymer Physics, 2012, 50, 305-322.	2.4	108
3	New Host Polymeric Framework and Related Polar Guest Cocrystals. Chemistry of Materials, 2007, 19, 3864-3866.	3.2	102
4	Thermoreversible gelation of syndiotactic polystyrene in toluene and chloroform. Polymer, 1997, 38, 4193-4199.	1.8	98
5	Syndiotactic Polystyrene Aerogels: Adsorption in Amorphous Pores and Absorption in Crystalline Nanocavities. Chemistry of Materials, 2008, 20, 577-582.	3.2	96
6	Syndiotatic Polystyrene Aerogels with Î², Î³, and Îµ Crystalline Phases. Chemistry of Materials, 2009, 21, 1028-1034.	3.2	94
7	Nanoporous Crystalline Phases of Poly(2,6-Dimethyl-1,4-phenylene)oxide. Chemistry of Materials, 2011, 23, 3195-3200.	3.2	81
8	Channel Clathrate of Syndiotactic Polystyrene with p-nitroaniline. Macromolecules, 2010, 43, 1455-1466.	2.2	80
9	Monoclinic and Triclinic Î´-Clathrates of Syndiotactic Polystyrene. Macromolecules, 2010, 43, 8549-8558.	2.2	78
10	Clathrate Phase in Syndiotactic Polystyrene Gels. Macromolecules, 2002, 35, 2243-2251.	2.2	76
11	Gas Sorption and Diffusion in Amorphous and Semicrystalline Nanoporous Poly(2,6-dimethyl-1,4-phenylene)oxide. Macromolecules, 2012, 45, 3604-3615.	2.2	66
12	Syndiotactic Polystyrene Clathrates with Polar Guest Molecules. Chemistry of Materials, 2007, 19, 3302-3308.	3.2	65
13	Monolithic Nanoporous Crystalline Aerogels. Macromolecular Rapid Communications, 2013, 34, 1194-1207.	2.0	61
14	Thermal Stability of Nanoporous Crystalline and Amorphous Phases of Poly(2,6-dimethyl-1,4-phenylene) Oxide. Macromolecules, 2013, 46, 449-454.	2.2	50
15	Two Nanoporous Crystalline Forms of Poly(2,6-dimethyl-1,4-phenylene)oxide and Related Co-Crystalline Forms. Macromolecules, 2019, 52, 9646-9656.	2.2	50
16	Aerogels and Polymorphism of Isotactic Poly(4-methyl-pentene-1). ACS Applied Materials & Interfaces, 2011, 3, 969-977.	4.0	49
17	Hydrogen Adsorption by Î´ and Îµ Crystalline Phases of Syndiotactic Polystyrene Aerogels. Macromolecules, 2010, 43, 8594-8601.	2.2	42
18	A chiral co-crystalline form of poly(2,6-dimethyl-1,4-phenylene)oxide (PPO). Journal of Materials Chemistry, 2012, 22, 11672.	6.7	40

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19	Monolithic nanoporousâ€“crystalline aerogels based on PPO. RSC Advances, 2012, 2, 12011.	1.7	40
20	Removal of phenol in aqueous media by N-doped TiO2 based photocatalytic aerogels. Materials Science in Semiconductor Processing, 2018, 80, 104-110.	1.9	40
21	Dipolar guest orientation in polymer co-crystals and macroscopic films. CrystEngComm, 2009, 11, 2381.	1.3	39
22	Ferroelectric co-crystalline polymers. Journal of Materials Chemistry, 2011, 21, 19074.	6.7	39
23	Solubility and diffusivity of low molecular weight compounds in semi-crystalline poly-(2,6-dimethyl-1,4-phenylene)oxide: The role of the crystalline phase. Journal of Membrane Science, 2013, 443, 100-106.	4.1	39
24	Nanoporous triclinic Î´ modification of syndiotactic polystyrene. Polymer, 2015, 63, 230-236.	1.8	39
25	Syndiotactic Polystyrene Physical Gels:Â Guest Influence on Structural Order in Molecular Complex Domains and Gel Transparency. Macromolecules, 2006, 39, 7578-7582.	2.2	38
26	Physical Gelation of Syndiotactic Polystyrene in the Presence of Large Molar Volume Solvents Induced by Volatile Guests of Clathrate Phases. Macromolecules, 2003, 36, 1713-1716.	2.2	37
27	Nanoporous-crystalline poly(2,6-dimethyl-1,4-phenylene)oxide (PPO) aerogels. Polymer, 2016, 105, 96-103.	1.8	36
28	Control of Crystal Size and Orientation in Polymer Films by Hostâ^'Guest Interactions. Macromolecules, 2006, 39, 4820-4823.	2.2	32
29	Storage of hydrogen as a guest of a nanoporous polymeric crystalline phase. Physical Chemistry Chemical Physics, 2010, 12, 5369.	1.3	30
30	Evaluation of the Amount and Composition of the Polymer-Rich and Polymer-Poor Phases of Syndiotactic Polystyrene Gels with Binary Solvent Mixtures. Macromolecules, 2003, 36, 5742-5750.	2.2	28
31	Monolithic Polymeric Aerogels with VOCs Sorbent Nanoporous Crystalline and Water Sorbent Amorphous Phases. ACS Applied Materials & Interfaces, 2015, 7, 1318-1326.	4.0	28
32	Etched Fibers of Syndiotactic Polystyrene with Nanoporous-Crystalline Phases. Macromolecules, 2018, 51, 6138-6148.	2.2	24
33	Îµ Form Gels and Aerogels of Syndiotactic Polystyrene. Macromolecules, 2015, 48, 1187-1193.	2.2	23
34	Rayleigh scattering by graphene-oxide in syndiotactic polystyrene aerogels. Carbon, 2014, 77, 896-905.	5.4	22
35	Microporous-crystalline microfibers by eco-friendly guests: An efficient tool for sorption of volatile organic pollutants. Microporous and Mesoporous Materials, 2016, 232, 205-210.	2.2	22
36	Influence of aggregate size on photoactivity of N-doped TiO2 particles in aqueous suspensions under visible light irradiation. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 336, 191-197.	2.0	22

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37	Highly Robust and Selective System for Water Pollutants Removal: How to Transform a Traditional Photocatalyst into a Highly Robust and Selective System for Water Pollutants Removal. Nanomaterials, 2019, 9, 1509.	1.9	22
38	High diffusivity dense films of a nanoporous-crystalline polymer. Polymer, 2021, 229, 124005.	1.8	18
39	Polymorphism of Poly(2,6-dimethyl-1,4-phenylene)oxide in Axially Stretched Films. Macromolecules, 2020, 53, 2287-2294.	2.2	17
40	Porous Materials from Polyvinylidene Fluoride/Solvent Molecular Compounds. Soft Materials, 2011, 9, 280-294.	0.8	16
41	Clay exfoliation and polymer/clay aerogels by supercritical carbon dioxide. Frontiers in Chemistry, 2013, 1, 28.	1.8	16
42	Axially Oriented Nanoporous Crystalline Phases of Poly(2,6-dimethyl-1,4-phenylene)oxide. ACS Applied Polymer Materials, 2020, 2, 3518-3524.	2.0	16
43	Fast uptake of organic pollutants from dilute aqueous solutions by nanoporous-crystalline PPO films with c-perpendicular orientation. European Polymer Journal, 2021, 161, 110864.	2.6	14
44	Monolithic Aerogels Based on Poly(2,6-diphenyl-1,4-phenylene oxide) and Syndiotactic Polystyrene. ACS Applied Materials & Interfaces, 2013, 5, 5493-5499.	4.0	13
45	Planar Orientation and Transparency of Nanoporous-Crystalline Polymer Films. Macromolecules, 2021, 54, 6605-6611.	2.2	13
46	Packaging technology for improving shelfâ€life of fruits based on a nanoporousâ€“crystalline polymer. Journal of Applied Polymer Science, 2018, 135, 46256.	1.3	12
47	High Surface Area Nanoporous-Crystalline Polymer Films. Macromolecules, 2022, 55, 2983-2990.	2.2	12
48	Mechanisms determining different planar orientations in PPO films crystallized by guest sorption. Polymer, 2021, 235, 124242.	1.8	11
49	Dependence on Film Thickness of Guest-Induced c Perpendicular Orientation in PPO Films. Polymers, 2021, 13, 4384.	2.0	11
50	Guest induced transition from Î² to Î± nanoporous crystalline forms of PPO. Polymer, 2020, 187, 122083.	1.8	10
51	Monomeric and Dimeric Carboxylic Acid in Crystalline Cavities and Channels of Delta and Epsilon Forms of Syndiotactic Polystyrene. Polymers, 2021, 13, 3330.	2.0	10
52	Axial Orientation of Co-Crystalline Phases of Poly(2,6-Dimethyl-1,4-Phenylene)Oxide Films. Polymers, 2020, 12, 2394.	2.0	9
53	Melting of nanoporous-crystalline and co-crystalline solution cast films of poly(2,6-dimethyl-1,4-phenylene) oxide. Polymer, 2021, 228, 123935.	1.8	9
54	Axially oriented guest induced crystallization in syndiotactic polystyrene unstretched fibers. Polymer, 2021, 228, 123908.	1.8	9

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55	Catalytic system based on recyclable Fe0 and ZnS semiconductor for UV-promoted degradation of chlorinated organic compounds. Separation and Purification Technology, 2021, 270, 118830.	3.9	9
56	Control of Guest Thermal Release by Crystalline Host Orientation. ACS Applied Polymer Materials, 2021, 3, 949-955.	2.0	8
57	Isolated and aggregated carvacrol guest molecules in cocrystalline poly(2,6-dimethyl-1,4-phenylene)oxide films. Polymer Journal, 0, , .	1.3	8
58	Molecular Features Behind Formation of Î± or Î² Co-Crystalline and Nanoporous-Crystalline Phases of PPO. Frontiers in Chemistry, 2021, 9, 809850.	1.8	7
59	Thermal Behavior of Syndiotactic Polystyrene/1,2â€Dichloroethane Gels and Stoichiometry of Polymerâ€Solvent Compounds. Soft Materials, 2004, 2, 47-56.	0.8	6
60	Nanoporous Crystalline Polymer Materials for Environmental Applications. Macromolecular Symposia, 2016, 369, 19-25.	0.4	6
61	c-Perpendicular Orientation of Poly(ÊŸ-lactide) Films. Polymers, 2021, 13, 1572.	2.0	5
62	Tailoring novel polymer/UTSA-16 hybrid aerogels for efficient CH4/CO2 separation. Microporous and Mesoporous Materials, 2022, 341, 112106.	2.2	5
63	Structural Organization and Properties of Syndiotactic Polystyrene Gels. Macromolecular Symposia, 2007, 251, 1-10.	0.4	4
64	Thermal shrinkage and heat capacity of monolithic polymeric physical aerogels. Polymer, 2020, 210, 123073.	1.8	4
65	Structure and Sorption Properties of Syndiotactic Polystyrene Aerogels. ACS Symposium Series, 2010, , 131-147.	0.5	3
66	Sorption of Pollutant Traces by Nanoporous Crystalline Aerogels: Visualization by a Dye. Macromolecular Symposia, 2011, 303, 37-41.	0.4	3
67	Nanoporous polymeric aerogelsâ€“based structured photocatalysts for the removal of organic pollutant from water under visible or solar light. , 2020, , 99-120.		3
68	Nanoporous Crystalline Composite Aerogels with Reduced Graphene Oxide. Molecules, 2020, 25, 5241.	1.7	3
69	Fast uptake of organic pollutants from dilute aqueous solutions by nanoporous-crystalline PPO films with c-perpendicular orientation. European Polymer Journal, 2022, 164, 110976.	2.6	3
70	Nanoporousâ€“Crystalline Poly(2,6-dimethyl-1,4-phenylene)oxide Aerogels with Selectively Sulfonated Amorphous Phase for Fast VOC Sorption from Water. Materials, 2022, 15, 1947.	1.3	3
71	câ€perpendicular orientation in thin <scp>nanoporousâ€crystalline</scp> poly(2,6â€dimethylâ€1,4â€phenylene)oxide films. Polymers for Advanced Technologies, 2022, 33, 2344-2351.	1.6	3
72	Influence of Supercritical Carbon Dioxide Extraction Temperature on the Crystalline Structure and the Morphology of Syndiotactic Polystyrene Aerogels. Macromolecular Symposia, 2008, 273, 135-138.	0.4	2

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73	Nanoporous Semicrystalline Syndiotactic Polystyrene with Sulfonated Amorphous Phase, for a Fast and Efficient Removal of VOC Pollutant Traces From Water. Macromolecular Symposia, 2016, 359, 16-23.	0.4	1
74	High surface area polymer films by co-crystallization with low-molecular-mass guest molecules. European Polymer Journal, 2022, , 111305.	2.6	1
75	Thermoplastic Molecular Sieves: New Polymeric Materials for Molecular Packaging. ACS Symposium Series, 2005, , 171-186.	0.5	0
76	Crystalline Organization in Syndiotactic Polystyrene Gels and Aerogels. Macromolecular Symposia, 2005, 222, 247-252.	0.4	0
77	Crystalline Nanoporous Materials Based on Poly(2,6â€dimethylâ€1,4â€phenylene)oxide. Macromolecular Symposia, 2014, 335, 70-77.	0.4	0
78	Characterization of Syndiotactic Polystyrene Nanofilms by PMâ€IRRAS Spectroscopy. Macromolecular Symposia, 2016, 359, 24-31.	0.4	0