David Edouard

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Polydopamine film coating on polyurethane foams as efficient "sunscreen― Application to photocatalysis under UV irradiation. Environmental Technology and Innovation, 2021, 23, 101618.	6.1	6
2	An efficient bioâ€inspired catalytic tool for hydrogen release at room temperature from a stable borohydride solution. International Journal of Energy Research, 2020, 44, 10612-10627.	4.5	5
3	Borohydrideâ€functionalized polydopamineâ€coated open cell polyurethane foam as a reusable soft structured material for reduction reactions: Application to the removal of a dye. Environmental Progress and Sustainable Energy, 2019, 38, 329-335.	2.3	9
4	Coating of polydopamine on polyurethane open cell foams to design soft structured supports for molecular catalysts. Chemical Communications, 2019, 55, 11960-11963.	4.1	11
5	Platelet Millireactor Filled with Open Cell Foam-Supported Pt Nanoparticles for a Three-Phase Catalytic System. Industrial & Engineering Chemistry Research, 2019, 58, 9352-9361.	3.7	6
6	Effective heat transfers in packed bed: Experimental and model investigation. Chemical Engineering Science, 2019, 201, 424-436.	3.8	6
7	An intensification of the CO2 methanation reaction: Effect of carbon nanofiber network on the hydrodynamic, thermal and catalytic properties of reactors filled with open cell foams. Chemical Engineering Science, 2019, 195, 271-280.	3.8	16
8	Adsorption of dye with carbon media supported on polyurethane open cell foam. Catalysis Today, 2018, 301, 98-103.	4.4	34
9	Aluminum Open Cell Foams as Efficient Supports for Carbon Dioxide Methanation Catalysts: Pilot cale Reaction Results. Energy Technology, 2017, 5, 2078-2085.	3.8	23
10	Polydopamine-coated open cell polyurethane foam as an efficient and easy-to-regenerate soft structured catalytic support (S 2 CS) for the reduction of dye. Journal of Environmental Chemical Engineering, 2017, 5, 79-85.	6.7	27
11	Revised cubic model for theoretical estimation of effective thermal conductivity of metal foams. Applied Thermal Engineering, 2017, 113, 1313-1318.	6.0	8
12	Open cell foam catalysts for CO 2 methanation: Presentation of coating procedures and in situ exothermicity reaction study by infrared thermography. Catalysis Today, 2016, 273, 83-90.	4.4	59
13	Polydopamine-coated open cell polyurethane foams as an inexpensive, flexible yet robust catalyst support: a proof of concept. Chemical Communications, 2016, 52, 4691-4693.	4.1	41
14	Optimization of structured cellular foam-based catalysts for low-temperature carbon dioxide methanation in a platelet milli-reactor. Comptes Rendus Chimie, 2015, 18, 283-292.	0.5	49
15	DirectCell technique: A very fast and simple method for characteristic lengths estimation in polyurethane open cell foam. Chemical Engineering and Processing: Process Intensification, 2014, 86, 64-68.	3.6	1
16	Silicon carbide foam decorated with carbon nanofibers as catalytic stirrer in liquid-phase hydrogenation reactions. Applied Catalysis A: General, 2014, 469, 81-88.	4.3	32
17	High performance structured platelet milli-reactor filled with supported cobalt open cell SiC foam catalyst for the Fischer–Tropsch synthesis. Chemical Engineering Journal, 2013, 222, 265-273.	12.7	54
18	A Theoretical Comparative Study Between Open Cell Foam and Conventional Packed Bed in Externally Cooled Multitubular Fixed-Bed Reactors for the C1 Chemistry. Advanced Chemistry Letters, 2013, 1, 286-291.	0.1	0

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19	Axial Dispersion Based on the Residence Time Distribution Curves in a Millireactor Filled with \hat{l}^2 -SiC Foam Catalyst. Industrial & Engineering Chemistry Research, 2012, 51, 15011-15017.	3.7	25
20	Simulation and experimental measurement of dynamic behavior of solid foam filter for diesel exhaust gas. Catalysis Today, 2012, 189, 101-110.	4.4	21
21	Filtration and Catalytic Reaction in Trickle Beds: The Use of Solid Foam Guard Beds To Mitigate Fines Plugging. Industrial & Engineering Chemistry Research, 2012, 51, 1729-1740.	3.7	4
22	Residence time distribution, axial liquid dispersion and dynamic–static liquid mass transfer in trickle flow reactor containing β-SiC open-cell foams. Chemical Engineering Journal, 2012, 185-186, 294-299.	12.7	47
23	Co–Ru/SiC impregnated with ethanol as an effective catalyst for the Fischer–Tropsch synthesis. Applied Catalysis A: General, 2012, 419-420, 31-40.	4.3	58
24	Nitrogenâ€Doped Carbon Nanotubes as a Highly Active Metalâ€Free Catalyst for Selective Oxidation. ChemSusChem, 2012, 5, 102-108.	6.8	162
25	Radial Dispersion in Liquid Upflow through Solid SiC Foams. Industrial & Engineering Chemistry Research, 2011, 50, 4329-4334.	3.7	11
26	Methanol dehydration to dimethyl ether in a platelet milli-reactor filled with H-ZSM5/SiC foam catalyst. Applied Catalysis A: General, 2011, 409-410, 113-121.	4.3	40
27	A predictive model based on tortuosity for pressure drop estimation in â€~slim' and â€~fat' foams. Chemic Engineering Science, 2011, 66, 4771-4779.	cal 3.8	22
28	The effective thermal conductivity for "slim―and "fat―foams. AICHE Journal, 2011, 57, 1646-1651.	3.6	31
29	Silicon carbide foam composite containing cobalt as a highly selective and re-usable Fischer–Tropsch synthesis catalyst. Applied Catalysis A: General, 2011, 397, 62-72.	4.3	140
30	Bucky paper with improved mechanical stability made from vertically aligned carbon nanotubes for desulfurization process. Applied Catalysis A: General, 2011, 400, 230-237.	4.3	17
31	UV-A photocatalytic treatment of Legionella pneumophila bacteria contaminated airflows through three-dimensional solid foam structured photocatalytic reactors. Journal of Hazardous Materials, 2010, 175, 372-381.	12.4	41
32	The effective thermal properties of solid foam beds: Experimental and estimated temperature profiles. International Journal of Heat and Mass Transfer, 2010, 53, 3807-3816.	4.8	30
33	Catalytic growth of silicon carbide composite with nanoscopic properties and enhanced oxidative resistance as catalyst support. Applied Catalysis A: General, 2010, 385, 52-61.	4.3	20
34	High surface-to-volume hybrid platelet reactor filled with catalytically grown vertically aligned carbon nanotubes. Catalysis Today, 2010, 150, 133-139.	4.4	12
35	Towards a more realistic modeling of solid foam: Use of the pentagonal dodecahedron geometry. Chemical Engineering Science, 2009, 64, 5131-5142.	3.8	106
36	Pressure drop measurements and hydrodynamic model description of SiC foam composites decorated with SiC nanofiber. Catalysis Today, 2009, 141, 403-408.	4.4	35

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#	Article	IF	CITATIONS
37	Fe2O3/β-SiC: A new high efficient catalyst for the selective oxidation of H2S into elemental sulfur. Catalysis Today, 2009, 141, 397-402.	4.4	41
38	Effect of structure and thermal properties of a Fischer–Tropsch catalyst in a fixed bed. Catalysis Today, 2009, 147, S305-S312.	4.4	79
39	Experimental measurements and multiphase flow models in solid SiC foam beds. AICHE Journal, 2008, 54, 2823-2832.	3.6	69
40	Pressure drop modeling on SOLID foam: State-of-the art correlation. Chemical Engineering Journal, 2008, 144, 299-311.	12.7	146
41	1D SiC decoration of SiC macroscopic shapes for filtration devices. Journal of Materials Chemistry, 2008, 18, 4654.	6.7	39
42	High thermal conductive Î ² -SiC for selective oxidation of H2S: A new support for exothermal reactions. Applied Catalysis B: Environmental, 2007, 76, 300-310.	20.2	80
43	Pressure drop measurements and modeling on SiC foams. Chemical Engineering Science, 2007, 62, 3259-3267.	3.8	220
44	Role of gas phase in the deposition dynamics of fine particles in trickle-bed reactors. Chemical Engineering Science, 2006, 61, 3875-3884.	3.8	12
45	Usability of ECT for quantitative and qualitative characterization of trickle-bed flow dynamics subject to filtration conditions. Chemical Engineering and Processing: Process Intensification, 2006, 45, 538-545.	3.6	17
46	Nonlinear soft-sensors design for unsteady-state VOC afterburners. AICHE Journal, 2006, 52, 282-291.	3.6	8
47	Observer based multivariable control of a catalytic reverse flow reactor: comparison between LQR and MPC approaches. Computers and Chemical Engineering, 2005, 29, 851-865.	3.8	35
48	Observer design for particle size distribution in emulsion polymerization. AICHE Journal, 2005, 51, 3167-3185.	3.6	19
49	Control of a reverse flow reactor for VOC combustion. Chemical Engineering Science, 2005, 60, 1661-1672.	3.8	28
50	Observer design for reverse flow reactor. AICHE Journal, 2004, 50, 2155-2166.	3.6	18