

Brigitte Caussat

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73
papers

1,259
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19
h-index

33
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75
ext. papers

1,401
ext. citations

5
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4.09
L-index

#	Paper	IF	Citations
73	Carbon nanotubes produced by fluidized bed catalytic CVD: first approach of the process. <i>Chemical Engineering Science</i> , 2003 , 58, 4475-4482	4.4	127
72	Principles and applications of CVD powder technology. <i>Materials Science and Engineering Reports</i> , 2006 , 53, 1-72	30.9	120
71	Multifluid Eulerian modeling of dense gas/solids fluidized bed hydrodynamics: Influence of the dissipation parameters. <i>Chemical Engineering Science</i> , 2008 , 63, 5540-5551	4.4	115
70	Properties of Membranes Containing Semi-dispersed Carbon Nanotubes. <i>Environmental Engineering Science</i> , 2008 , 25, 565-576	2	83
69	Catalytic Production of Carbon Nanotubes by Fluidized-Bed CVD. <i>Chemical Vapor Deposition</i> , 2007 , 13, 447-457		69
68	A parametric study of the large scale production of multi-walled carbon nanotubes by fluidized bed catalytic chemical vapor deposition. <i>Carbon</i> , 2007 , 45, 624-635	10.4	67
67	An original growth mode of MWCNTs on alumina supported iron catalysts. <i>Journal of Catalysis</i> , 2009 , 263, 345-358	7.3	53
66	Silicon deposition from silane or disilane in a fluidized bed Part I: Experimental study. <i>Chemical Engineering Science</i> , 1995 , 50, 3615-3624	4.4	52
65	Experimental study on fluidization of micronic powders. <i>Powder Technology</i> , 2005 , 157, 114-120	5.2	37
64	Kinetic study of carbon nanotubes synthesis by fluidized bed chemical vapor deposition. <i>AIChE Journal</i> , 2009 , 55, 450-464	3.6	36
63	Three dimensional graphene synthesis on nickel foam by chemical vapor deposition from ethylene. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2014 , 179, 12-16	3.1	25
62	Investigation of the initial deposition steps and the interfacial layer of Atomic Layer Deposited (ALD) Al ₂ O ₃ on Si. <i>Applied Surface Science</i> , 2019 , 492, 245-254	6.7	22
61	High quality graphene synthesized by atmospheric pressure CVD on copper foil. <i>Surface and Coatings Technology</i> , 2013 , 230, 87-92	4.4	22
60	Multifluid Eulerian modelling of a silicon Fluidized Bed Chemical Vapor Deposition process: Analysis of various kinetic models. <i>Chemical Engineering Journal</i> , 2009 , 148, 506-516	14.7	22
59	Silicon CVD on powders in fluidized bed: Experimental and multifluid Eulerian modelling study. <i>Surface and Coatings Technology</i> , 2007 , 201, 8919-8923	4.4	22
58	Silicon Chemical Vapor Deposition on macro and submicron powders in a fluidized bed. <i>Powder Technology</i> , 2009 , 190, 185-191	5.2	20
57	Computational Fluid Dynamics simulation of the ALD of alumina from TMA and H ₂ O in a commercial reactor. <i>Chemical Engineering Research and Design</i> , 2018 , 132, 795-811	5.5	19

56	Alumina coatings on silica powders by Fluidized Bed Chemical Vapor Deposition from aluminium acetylacetonate. <i>Chemical Engineering Journal</i> , 2012 , 211-212, 68-76	14.7	19
55	CVD and Powders: A Great Potential to Create New Materials. <i>Chemical Vapor Deposition</i> , 2007 , 13, 443-445		19
54	Detailed investigation of the surface mechanisms and their interplay with transport phenomena in alumina atomic layer deposition from TMA and water. <i>Chemical Engineering Science</i> , 2019 , 195, 399-412	4.4	19
53	High temperature annealing of micrometric Zn ₂ SiO ₄ :Mn phosphor powders in fluidized bed. <i>Materials Research Bulletin</i> , 2008 , 43, 2751-2762	5.1	18
52	The Role of the Gas Phase in Graphene Formation by CVD on Copper. <i>Chemical Vapor Deposition</i> , 2014 , 20, 51-58		15
51	Investigation of the densification mechanisms and corrosion resistance of amorphous silica films. <i>Journal of Non-Crystalline Solids</i> , 2019 , 515, 34-41	3.9	14
50	Local Kinetic Modeling of Aluminum Oxide Metal-Organic CVD From Aluminum Tri-isopropoxide. <i>Chemical Vapor Deposition</i> , 2011 , 17, 181-185		14
49	Kinetic modeling study of carbon nanotubes synthesis by fluidized bed chemical vapor deposition. <i>AIChE Journal</i> , 2009 , 55, 465-474	3.6	14
48	Liquid and Solid Precursor Delivery Systems in Gas Phase Processes. <i>Recent Patents on Materials Science</i> , 2015 , 8, 91-108	0.3	11
47	Effects of reducing the reactor diameter on the fluidization of a very dense powder. <i>Powder Technology</i> , 2015 , 277, 268-274	5.2	10
46	Modeling of spray pyrolysis: Why are the synthesized Y ₂ O ₃ microparticles hollow?. <i>AIChE Journal</i> , 2008 , 54, 394-405	3.6	10
45	A dimensionless study of the evaporation and drying stages in spray pyrolysis. <i>Computers and Chemical Engineering</i> , 2007 , 31, 1088-1099	4	9
44	An out of the box vision over oxidative chemical vapor deposition of PEDOT involving sublimed iron trichloride. <i>Synthetic Metals</i> , 2020 , 266, 116419	3.6	8
43	Multi-scale modelling of silicon nanocrystal synthesis by Low Pressure Chemical Vapor Deposition. <i>Thin Solid Films</i> , 2011 , 519, 7650-7658	2.2	8
42	Fluidized-Bed MOCVD of Bi ₂ O ₃ Thin Films from Bismuth Triphenyl under Atmospheric Pressure. <i>Chemical Vapor Deposition</i> , 2010 , 16, 123-126		8
41	Chemical vapor deposition of silicon nanodots on TiO ₂ submicronic powders in vibrated fluidized bed. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2010 , 170, 41-50 ^{3.1}		8
40	Y ₂ O ₃ :Eu micronic particles synthesised by spray pyrolysis: Global modelling and optimisation of the evaporation stage. <i>Chemical Engineering and Processing: Process Intensification</i> , 2008 , 47, 731-743	3.7	8
39	Crystallization of microscopic Y ₂ O ₃ powders by different techniques of fluidization at high temperature. <i>Chemical Engineering Journal</i> , 2006 , 125, 25-33	14.7	8

38	Fluidized bed chemical vapor deposition of copper nanoparticles on multi-walled carbon nanotubes. <i>Surface and Coatings Technology</i> , 2017 , 331, 129-136	4.4	7
37	Modeling a MOCVD process to apply alumina films on the inner surface of bottles. <i>Surface and Coatings Technology</i> , 2015 , 275, 167-175	4.4	7
36	Fluidization and coating of very dense powders by Fluidized Bed Chemical Vapour Deposition. <i>Chemical Engineering Research and Design</i> , 2013 , 91, 2477-2483	5.5	7
35	Modelling of an industrial moving belt chemical vapour deposition reactor forming . <i>Chemical Engineering Science</i> , 2005 , 60, 5331-5340	4.4	7
34	A new route for the integration of a graphene/diazonium/PEDOT electrode towards antioxidant biomarker detection. <i>Journal of Electroanalytical Chemistry</i> , 2016 , 771, 73-79	4.1	7
33	Development of a kinetic model for the moderate temperature chemical vapor deposition of SiO ₂ films from tetraethyl orthosilicate and oxygen. <i>AIChE Journal</i> , 2018 , 64, 3958-3966	3.6	6
32	Low temperature silicon oxide deposition on polymer powders in a fluidized bed coupled to a cold remote plasma. <i>Surface and Coatings Technology</i> , 2012 , 206, 4814-4821	4.4	6
31	Decorated carbon nanotubes by silicon deposition in fluidized bed for Li-ion battery anodes. <i>Chemical Engineering Research and Design</i> , 2013 , 91, 2491-2496	5.5	5
30	Amorphous Alumina Coatings on Glass Bottles Using Direct Liquid Injection MOCVD for Packaging Applications. <i>Advances in Science and Technology</i> , 2014 , 91, 117-122	0.1	5
29	Alumina coating on dense tungsten powder by fluidized bed metal organic chemical vapour deposition. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 8083-8	1.3	5
28	Influence of dopant concentration and type of substrate on the local organization of low-pressure chemical vapour deposition in situ boron doped silicon films from silane and boron trichloride. <i>Thin Solid Films</i> , 2004 , 446, 218-226	2.2	5
27	Large temperature range model for the atmospheric pressure chemical vapor deposition of silicon dioxide films on thermosensitive substrates. <i>Chemical Engineering Research and Design</i> , 2020 , 161, 146-158	5.5	5
26	Amorphous Alumina Barrier Coatings on Glass: MOCVD Process and Hydrothermal Aging. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600014	4.6	5
25	Silicon coating on very dense tungsten particles by fluidized bed CVD for nuclear application. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015 , 212, 1599-1606	1.6	4
24	Mechanical and Surface Properties of Chemical Vapor Deposited Protective Aluminium Oxide Films on TA6V Alloy. <i>Advances in Science and Technology</i> , 2010 , 66, 66-73	0.1	4
23	Development of an original model for the synthesis of silicon nanodots by Low Pressure Chemical Vapor Deposition. <i>Chemical Engineering Journal</i> , 2008 , 140, 600-608	14.7	4
22	Low-Pressure Chemical Vapor Deposition of Semi-insulating Polycrystalline Silicon Thin Films: I. Experimental Study and Proposal of New Kinetic Laws. <i>Journal of the Electrochemical Society</i> , 2001 , 148, C149	3.9	4
21	Modeling of Silicon CVD into Agglomerates of Sub-micrometer-size Particles in a Fluidized Bed. <i>Chemical Vapor Deposition</i> , 2011 , 17, 305-311		3

20	Liquid antimony pentachloride as oxidant for robust oxidative chemical vapor deposition of poly(3,4-ethylenedioxythiophene) films. <i>Applied Surface Science</i> , 2021 , 554, 149501	6.7	3
19	Effects of reducing the reactor diameter on the dense gas-solid fluidization of very heavy particles: 3D numerical simulations. <i>Chemical Engineering Research and Design</i> , 2017 , 117, 575-583	5.5	2
18	In situ N ₂ -NH ₃ plasma pre-treatment of silicon substrate enhances the initial growth and restricts the substrate oxidation during alumina ALD. <i>Journal of Applied Physics</i> , 2019 , 126, 125305	2.5	2
17	Iron deposition on multi-walled carbon nanotubes by fluidized bed MOCVD for aeronautic applications. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2015 , 12, 861-868		2
16	Fluidized bed chemical vapor deposition of silicon on carbon nanotubes for Li-ion batteries. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 8392-5	1.3	2
15	Towards multiscale modeling of Si nanocrystals LPCVD deposition on SiO ₂ : From ab initio calculations to reactor scale simulations. <i>Surface and Coatings Technology</i> , 2007 , 201, 8854-8858	4.4	2
14	Network hydration, ordering and composition interplay of chemical vapor deposited amorphous silica films from tetraethyl orthosilicate. <i>Journal of Materials Research and Technology</i> , 2021 , 13, 534-547	5.5	2
13	Decoration of Carbon Nanotubes by Semiconducting or Metallic Nanoparticles using Fluidized Bed Chemical Vapour Deposition. <i>KONA Powder and Particle Journal</i> , 2016 , 33, 322-332	3.4	1
12	Large-scale oxidation of multi-walled carbon nanotubes in fluidized bed from ozone-containing gas mixtures. <i>Canadian Journal of Chemical Engineering</i> , 2018 , 96, 688-695	2.3	1
11	Fluidized-Bed Chemical Vapor Deposition of Silicon on Very Dense Tungsten Powder. <i>Chemical Engineering and Technology</i> , 2015 , 38, 1254-1260	2	1
10	Influence of the synthesis conditions of silicon nanodots in an industrial low pressure chemical vapor deposition reactor. <i>Applied Surface Science</i> , 2008 , 254, 2927-2933	6.7	1
9	LP-CVD Silicon-Based Film Formation in Submicrometer Trenches in Industrial Equipment: Experiments and Simulation. <i>Chemical Vapor Deposition</i> , 2002 , 8, 213-219		1
8	Boron-Doped Polysilicon: Growth Kinetics and Structural Study of Low-Pressure Chemical Vapour Deposited Films in the Case of High Doping Levels. <i>Solid State Phenomena</i> , 2001 , 80-81, 59-64	0.4	1
7	Synthesis of Multi-Walled Carbon Nanotubes by Fluidized-Bed Chemical Vapor Deposition over Co/Al ₂ O ₃ . <i>Journal of Chemical Engineering of Japan</i> , 2014 , 47, 28-39	0.8	1
6	Tunable SiO ₂ to SiO _x C _y H films by ozone assisted chemical vapor deposition from tetraethylorthosilicate and hexamethyldisilazane mixtures. <i>Surface and Coatings Technology</i> , 2021 , 407, 126762	4.4	1
5	An innovative GC-MS, NMR and ESR combined, gas-phase investigation during chemical vapor deposition of silicon oxynitrides films from tris(dimethylsilyl)amine. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 10560-10572	3.6	1
4	An innovative kinetic model allowing insight in the moderate temperature chemical vapor deposition of silicon oxynitride films from tris(dimethylsilyl)amine. <i>Chemical Engineering Journal</i> , 2021 , 133350	14.7	0
3	Beyond surface nanoindentation: Combining static and dynamic nanoindentation to assess intrinsic mechanical properties of chemical vapor deposition amorphous silicon oxide (SiO _x) and silicon oxycarbide (SiO _x C _y) thin films. <i>Thin Solid Films</i> , 2021 , 735, 138844	2.2	

- 2 Barrier properties and hydrothermal aging of amorphous alumina coatings applied on pharmaceutical vials. *Surface and Coatings Technology*, **2021**, 425, 127711 4-4
- 1 Metalorganic chemical vapor deposition of aluminum oxides: A paradigm on the process-structure-properties relationship **2022**, 133-168