Philippe S Serp

List of Publications by Year
in descending order

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188 papers	12,132 citations	44069 48 h-index	29157 104 g-index
220 all docs	220 docs citations	220 times ranked	13862 citing authors

#	Article	IF	Citations
1	Carbon nanotubes and nanofibers in catalysis. Applied Catalysis A: General, 2003, 253, 337-358.	4.3	1,703
2	Graphene-based materials for catalysis. Catalysis Science and Technology, 2012, 2, 54-75.	4.1	882
3	Visible light photodegradation of phenol on MWNT-TiO2 composite catalysts prepared by a modified solâ€“gel method. Journal of Molecular Catalysis A, 2005, 235, 194-199.	4.8	456
4	A Theory/Experience Description of Support Effects in Carbon-Supported Catalysts. Chemical Reviews, 2020, 120, 1250-1349.	47.7	436
5	Pd and Ptâ€“Ru anode electrocatalysts supported on multi-walled carbon nanotubes and their use in passive and active direct alcohol fuel cells with an anion-exchange membrane (alcohol=methanol,) Tj ETQq1 1 0.784314 rgBT /Overlock	4.8	404
6	Comparison between activated carbon, carbon xerogel and carbon nanotubes for the adsorption of the antibiotic ciprofloxacin. Catalysis Today, 2012, 186, 29-34.	4.4	311
7	Photocatalytic degradation of phenol on MWNT and titania composite catalysts prepared by a modified solâ€“gel method. Applied Catalysis B: Environmental, 2005, 56, 305-312.	20.2	294
8	Catalysis in Carbon Nanotubes. ChemCatChem, 2010, 2, 41-47.	3.7	288
9	An Efficient Strategy to Drive Nanoparticles into Carbon Nanotubes and the Remarkable Effect of Confinement on Their Catalytic Performance. Angewandte Chemie - International Edition, 2009, 48, 2529-2533.	13.8	237
10	Chemical Vapor Deposition Methods for the Controlled Preparation of Supported Catalytic Materials. Chemical Reviews, 2002, 102, 3085-3128.	47.7	224
11	Carbon nanomaterialâ€“ionic liquid hybrids. Carbon, 2012, 50, 4303-4334.	10.3	214
12	A chemical vapour deposition process for the production of carbon nanospheres. Carbon, 2001, 39, 621-626.	10.3	187
13	Bimetallic catalysis on carbon nanotubes for the selective hydrogenation of cinnamaldehyde. Journal of Catalysis, 2006, 240, 18-22.	6.2	172
14	MWCNT activation and its influence on the catalytic performance of Pt/MWCNT catalysts for selective hydrogenation. Carbon, 2008, 46, 1194-1207.	10.3	172
15	Catalytic activity of carbon nanotubes in the oxidative dehydrogenation of ethylbenzene. Carbon, 2004, 42, 2807-2813.	10.3	150
16	Single Atom Catalysts on Carbonâ€Based Materials. ChemCatChem, 2018, 10, 5058-5091.	3.7	148
17	Principles and applications of CVD powder technology. Materials Science and Engineering Reports, 2006, 53, 1-72.	31.8	147
18	Parametric study for the growth of carbon nanotubes by catalytic chemical vapor deposition in a fluidized bed reactor. Carbon, 2002, 40, 1799-1807.	10.3	145

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19	Preparation and characterization of nanostructured MWCNT-TiO2 composite materials for photocatalytic water treatment applications. Materials Research Bulletin, 2008, 43, 958-967.	5.2	143
20	Carbon nanotubes produced by fluidized bed catalytic CVD: first approach of the process. Chemical Engineering Science, 2003, 58, 4475-4482.	3.8	139
21	Preparation of Rhodium Catalysts Supported on Carbon Nanotubes by a Surface Mediated Organometallic Reaction. European Journal of Inorganic Chemistry, 2003, 2003, 610-617.	2.0	135
22	Carbon nanotube supported ruthenium catalysts for the treatment of high strength wastewater with aniline using wet air oxidation. Carbon, 2006, 44, 2384-2391.	10.3	105
23	Recent advances in the methanol carbonylation reaction into acetic acid. Coordination Chemistry Reviews, 2020, 402, 213078.	18.8	102
24	Catalytic performance of Au/ZnO nanocatalysts for CO oxidation. Journal of Catalysis, 2010, 273, 191-198.	6.2	99
25	Coordination chemistry on carbon surfaces. Coordination Chemistry Reviews, 2016, 308, 236-345.	18.8	98
26	Properties of Membranes Containing Semi-dispersed Carbon Nanotubes. Environmental Engineering Science, 2008, 25, 565-576.	1.6	95
27	Controlled and Chemoselective Hydrogenation of Nitrobenzene over Ru@C₆₀ Catalysts. ACS Catalysis, 2016, 6, 6018-6024.	11.2	95
28	Theoretical and Experimental Studies on the Carbonâ€Nanotube Surface Oxidation by Nitric Acid: Interplay between Functionalization and Vacancy Enlargement. Chemistry - A European Journal, 2011, 17, 11467-11477.	3.3	93
29	Synergistic effect between carbon nanomaterials and ZnO for photocatalytic water decontamination. Journal of Catalysis, 2015, 331, 172-180.	6.2	91
30	Carbon nanotubes and xerogels as supports of well-dispersed Pt catalysts for environmental applications. Applied Catalysis B: Environmental, 2004, 54, 175-182.	20.2	87
31	Platinum catalysts supported on MWNT for catalytic wet air oxidation of nitrogen containing compounds. Catalysis Today, 2005, 102-103, 101-109.	4.4	84
32	Influence of particles alloying on the performances of Ptâ€“Ru/CNT catalysts for selective hydrogenation. Journal of Catalysis, 2011, 278, 59-70.	6.2	84
33	Novel microwave synthesis of ruthenium nanoparticles supported on carbon nanotubes active in the selective hydrogenation of p-chloronitrobenzene to p-chloroaniline. Applied Catalysis A: General, 2012, 421-422, 99-107.	4.3	80
34	A parametric study of the large scale production of multi-walled carbon nanotubes by fluidized bed catalytic chemical vapor deposition. Carbon, 2007, 45, 624-635.	10.3	78
35	Catalytic Production of Carbon Nanotubes by Fluidizedâ€Bed CVD. Chemical Vapor Deposition, 2007, 13, 447-457.	1.3	76
36	Supported ionic liquid phase catalysis on functionalized carbon nanotubes. Chemical Communications, 2008, , 4201.	4.1	76

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37	Confinement of Metal Nanoparticles in Carbon Nanotubes. ChemCatChem, 2013, 5, 3595-3603.	3.7	76
38	A Facile Route to Carbonylhalogenometal Complexes (M = Rh, Ir, Ru, Pt) by Dimethylformamide Decarbonylation. European Journal of Inorganic Chemistry, 2001, 2001, 2327-2336.	2.0	74
39	Catalytic Routes Towards Single Wall Carbon Nanotubes. Catalysis Reviews - Science and Engineering, 2007, 49, 341-405.	12.9	72
40	Understanding the surface chemistry of carbon nanotubes: Toward a rational design of Ru nanocatalysts. Journal of Catalysis, 2014, 309, 185-198.	6.2	71
41	Development of carbon nanotube and carbon xerogel supported catalysts for the electro-oxidation of methanol in fuel cells. Carbon, 2006, 44, 2516-2522.	10.3	68
42	Multi-walled carbon nanotubes functionalized by carboxylic groups: Activation of TiO2 (anatase) and phosphate olivines (LiMnPO4; LiFePO4) for electrochemical Li-storage. Journal of Power Sources, 2010, 195, 5360-5369.	7.8	68
43	Synthesis and Structureâ€“Property Correlation in Shapeâ€Controlled ZnO Nanoparticles Prepared by Chemical Vapor Synthesis and their Application in Dyeâ€Sensitized Solar Cells. Advanced Functional Materials, 2009, 19, 875-886.	14.9	67
44	MOCVD of rhodium, palladium and platinum complexes on fluidized divided substrates: Novel process for one-step preparation of noble-metal catalysts. Applied Organometallic Chemistry, 1998, 12, 161-172.	3.5	65
45	Developing highly active photocatalysts: Gold-loaded ZnO for solar phenol oxidation. Journal of Catalysis, 2014, 316, 182-190.	6.2	65
46	Supported Ionic Liquid Phase Containing Palladium Nanoparticles on Functionalized Multiwalled Carbon Nanotubes: Catalytic Materials for Sequential Heck Coupling/Hydrogenation Process. ChemCatChem, 2011, 3, 749-754.	3.7	63
47	An original growth mode of MWCNTs on alumina supported iron catalysts. Journal of Catalysis, 2009, 263, 345-358.	6.2	55
48	Hydrogenation of pâ€Chloronitrobenzene over Nanostructuredâ€Carbonâ€Supported Ruthenium Catalysts. ChemSusChem, 2011, 4, 950-956.	6.8	52
49	Selective Deposition of Gold Nanoparticles on or Inside Carbon Nanotubes and Their Catalytic Activity for Preferential Oxidation of CO. European Journal of Inorganic Chemistry, 2010, 2010, 5096-5102.	2.0	50
50	Cobalt catalysts on carbon-based materials for Fischer-Tropsch synthesis: a review. Applied Catalysis A: General, 2021, 609, 117906.	4.3	48
51	Novel carbon supported material: highly dispersed platinum particles on carbon nanospheres. Journal of Materials Chemistry, 2001, 11, 1980-1981.	6.7	47
52	Identification of key parameters for the selective growth of single or double wall carbon nanotubes on FeMo/Al2O3 CVD catalysts. Applied Catalysis A: General, 2007, 323, 162-173.	4.3	47
53	Effect of the synthetic strategy on the non-covalent functionalization of multi-walled carbon nanotubes with polymerized ionic liquids. Carbon, 2013, 57, 209-216.	10.3	44
54	Photocatalytic synthesis of vanillin using N-doped carbon nanotubes/ZnO catalysts under UV-LED irradiation. Applied Catalysis A: General, 2018, 551, 71-78.	4.3	44

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55	Origin of the synergistic effect between TiO2 crystalline phases in the Ni/TiO2-catalyzed CO2 methanation reaction. Journal of Catalysis, 2021, 398, 14-28.	6.2	43
56	Kinetic study of carbon nanotubes synthesis by fluidized bed chemical vapor deposition. AICHE Journal, 2009, 55, 450-464.	3.6	41
57	Imidazolium-based ionic liquids immobilized on solid supports: effect on the structure and thermostability. Dalton Transactions, 2010, 39, 7565.	3.3	41
58	Synthesis of Platinumâ€“Ruthenium Nanoparticles under Supercritical CO₂ and their Confinement in Carbon Nanotubes: Hydrogenation Applications. ChemCatChem, 2012, 4, 118-122.	3.7	41
59	Magnetic N-doped carbon nanotubes: A versatile and efficient material for the determination of polycyclic aromatic hydrocarbons in environmental water samples. Analytica Chimica Acta, 2015, 873, 51-56.	5.4	41
60	Platinum on carbonaceous supports for glycerol hydrogenolysis: Support effect. Journal of Catalysis, 2015, 325, 111-117.	6.2	41
61	Polyoxotungstate@Carbon Nanocomposites As Oxygen Reduction Reaction (ORR) Electrocatalysts. Langmuir, 2018, 34, 6376-6387.	3.5	41
62	Highly dispersed activated carbon supported platinum catalysts prepared by OMCVD: a comparison with wet impregnated catalysts. Applied Catalysis A: General, 2003, 243, 357-365.	4.3	39
63	Versatile magnetic carbon nanotubes for sampling and pre concentration of pesticides in environmental water. Talanta, 2017, 167, 538-543.	5.5	39
64	Carbon-supported iridium catalysts in the catalytic wet air oxidation of carboxylic acids: kinetics and mechanistic interpretation. Journal of Molecular Catalysis A, 2002, 182-183, 47-60.	4.8	38
65	Chemical Vapor Synthesis of Zinc Oxide Nanoparticles: Experimental and Preliminary Modeling Studies. Journal of Physical Chemistry C, 2009, 113, 19845-19852.	3.1	38
66	Liquidâ€Phase Hydrogenation of Unsaturated Aldehydes: Enhancing Selectivity of Multiwalled Carbon Nanotubeâ€Supported Catalysts by Thermal Activation. ChemCatChem, 2010, 2, 190-197.	3.7	38
67	Beneficial influence of nanocarbon on the aryliminopyridylnickel chloride catalyzed ethylene polymerization. Catalysis Communications, 2014, 43, 227-230.	3.3	37
68	Chiral rhodium complexes covalently anchored on carbon nanotubes for enantioselective hydrogenation. Dalton Transactions, 2014, 43, 7455.	3.3	37
69	Photocatalytic and biocidal activities of ZnTiO2 oxynitride heterojunction with MOF-5 and g-C3N4: A case study for textile wastewater treatment under direct sunlight. Journal of Hazardous Materials, 2021, 410, 124562.	12.4	36
70	Carbon xerogel supported noble metal catalysts for fine chemical applications. Catalysis Today, 2010, 149, 358-364.	4.4	35
71	hcp â€Co Nanowires Grown on Metallic Foams as Catalysts for Fischerâ€“Tropsch Synthesis. Angewandte Chemie - International Edition, 2018, 57, 10579-10583.	13.8	35
72	Polymerized ionic liquid functionalized multi-walled carbon nanotubes/polyetherimide composites. European Polymer Journal, 2013, 49, 3770-3777.	5.4	34

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73	Magnetic amphiphilic hybrid carbon nanotubes containing N-doped and undoped sections: powerful tensioactive nanostructures. Nanoscale, 2015, 7, 294-300.	5.6	34
74	Role of Nitrogen Doping on the Performance of Carbon Nanotube Catalysts: A Catalytic Wet Peroxide Oxidation Application. ChemCatChem, 2016, 8, 2068-2078.	3.7	34
75	Rhodium and palladium complexes from 1,1â€² and 1,2 ferrocenylphosphine as bidentate ligands. Versatile coordination. Journal of Organometallic Chemistry, 2000, 613, 77-85.	1.8	33
76	Carbon nanotubes produced by substrate free metalorganic chemical vapor deposition of iron catalysts and ethylene. Carbon, 2001, 39, 443-449.	10.3	33
77	Large scale synthesis of zinc oxide nanorods by homogeneous chemical vapour deposition and their characterisation. Surface and Coatings Technology, 2007, 201, 9200-9204.	4.8	33
78	Synergistic effect between few layer graphene and carbon nanotube supports for palladium catalyzing electrochemical oxidation of alcohols. Journal of Energy Chemistry, 2013, 22, 296-304.	12.9	33
79	Radiation induced in-situ cationic polymerization of polystyrene organogel for selective absorption of cholorophenols from petrochemical wastewater. Journal of Environmental Management, 2018, 210, 307-315.	7.8	33
80	Surface coordination chemistry on graphene and two-dimensional carbon materials for well-defined single atom supported catalysts. Advances in Organometallic Chemistry, 2019, 71, 53-174.	1.0	33
81	Few layer graphene synthesis on transition metal ferrite catalysts. Carbon, 2015, 89, 350-360.	10.3	32
82	One-Step Preparation of Highly Dispersed Supported Rhodium Catalysts by Low-Temperature Organometallic Chemical-Vapor-Deposition. Journal of Catalysis, 1995, 157, 294-300.	6.2	31
83	Enhanced ethylene polymerization of Ni(II) complexes supported on carbon nanotubes. Catalysis Today, 2014, 235, 33-40.	4.4	31
84	Control of the single atom/nanoparticle ratio in Pd/C catalysts to optimize the cooperative hydrogenation of alkenes. Catalysis Science and Technology, 2021, 11, 984-999.	4.1	30
85	A strategy for improving peroxidase stability via immobilization on surface modified multi-walled carbon nanotubes. Journal of Chemical Technology and Biotechnology, 2015, 90, 1570-1578.	3.2	29
86	Selectivity shifts in hydrogenation of cinnamaldehyde on electron-deficient ruthenium nanoparticles. Comptes Rendus Chimie, 2018, 21, 346-353.	0.5	29
87	Effect of mesoporous carbon support nature and pretreatments on palladium loading, dispersion and apparent catalytic activity in hydrogenation of myrcene. Journal of Catalysis, 2019, 372, 226-244.	6.2	29
88	Cooperativity in supported metal single atom catalysis. Nanoscale, 2021, 13, 5985-6004.	5.6	29
89	Fluidization, Spouting, and Metalâ€“Organic CVD of Platinum Group Metals on Powders. Chemical Vapor Deposition, 2002, 8, 127.	1.3	28
90	Janus amphiphilic carbon nanotubes as Pickering interfacial catalysts for the treatment of oily wastewater by selective oxidation with hydrogen peroxide. Catalysis Today, 2020, 356, 205-215.	4.4	27

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91	Preparation characterization and non-isothermal decomposition kinetics of different carbon nitride sheets. Egyptian Journal of Petroleum, 2020, 29, 21-29.	2.6	27
92	Introduction to Carbon Nanotubes. , 2010, , 47-118.		26
93	Stabilization of Metal Single Atoms on Carbon and TiO₂ Supports for CO₂ Hydrogenation: The Importance of Regulating Charge Transfer. Advanced Materials Interfaces, 2021, 8, 2001777.	3.7	26
94	Promoting Role of [PtI2(CO)]2 in the Iridium-Catalyzed Methanol Carbonylation to Acetic Acid and Its Interaction with Involved Iridium Species. Organometallics, 2006, 25, 5894-5905.	2.3	25
95	Alkynylisocyanide Gold Mesogens as Precursors of Gold Nanoparticles. Inorganic Chemistry, 2011, 50, 8654-8662.	4.0	25
96	Oxidized few layer graphene and graphite as metal-free catalysts for aqueous sulfide oxidation. Journal of Materials Chemistry A, 2013, 1, 9491.	10.3	25
97	Hydrogen Spillover in the Fischerâ€Tropsch Synthesis on Carbonâ€supported Cobalt Catalysts. ChemCatChem, 2020, 12, 1117-1128.	3.7	25
98	Introduction to Carbon Nanotubes. , 2007, , 43-112.		25
99	A microstructural investigation of vapor-grown carbon fibers. Carbon, 1996, 34, 1452-1454.	10.3	24
100	High purity multiwalled carbon nanotubes under high pressure and high temperature. Carbon, 2003, 41, 2361-2367.	10.3	24
101	Carbon supported platinum catalysts for catalytic wet air oxidation of refractory carboxylic acids. Topics in Catalysis, 2005, 33, 59-68.	2.8	24
102	Sequential catalytic growth of sulfur-doped carbon nanotubes and their use as catalyst support. Catalysis Communications, 2018, 109, 65-70.	3.3	23
103	Production of vapour-grown carbon fibres: influence of the catalyst precursor and operating conditions. Fuel, 1999, 78, 837-844.	6.4	22
104	Surface treatments of vapor-grown carbon fibers produced on a substrate. Carbon, 1999, 37, 1809-1816.	10.3	22
105	Catalytic activity of gold supported on ZnO tetrapods for the preferential oxidation of carbon monoxide under hydrogen rich conditions. Nanoscale, 2011, 3, 929-932.	5.6	22
106	Deposition of gold nanoparticles on ZnO and their catalytic activity for hydrogenation applications. Catalysis Communications, 2012, 22, 79-82.	3.3	22
107	Seed-mediated synthesis of bimetallic rutheniumâ€“platinum nanoparticles efficient in cinnamaldehyde selective hydrogenation. Dalton Transactions, 2014, 43, 9283-9295.	3.3	22
108	Synthesis and structure of ruthenium-fullerides. RSC Advances, 2016, 6, 69135-69148.	3.6	22

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109	Aqueous phase reforming of glycerol using doped graphenes as metal-free catalysts. Green Chemistry, 2017, 19, 3061-3068.	9.0	22
110	Hexakis [60]Fullerene Adductâ€Mediated Covalent Assembly of Ruthenium Nanoparticles and Their Catalytic Properties. Chemistry - A European Journal, 2017, 23, 13379-13386.	3.3	22
111	A versatile one-step method for the preparation of highly dispersed metal supported catalysts. Journal of Molecular Catalysis A, 1995, 101, L107-L110.	4.8	21
112	Isolation and Structural Characterization of Anionic and Neutral Compounds Resulting from the Oxidative Addition of HI or CH3I to [IrI2(CO)2]-. Inorganic Chemistry, 2003, 42, 5523-5530.	4.0	21
113	Direct Involvement of the Acetato Ligand in the Reductive Elimination Step of Rhodium-Catalyzed Methanol Carbonylation. Inorganic Chemistry, 2012, 51, 4-6.	4.0	21
114	Exploiting the surface â€“OH groups on activated carbons and carbon nanotubes for the immobilization of a Rh complex. Carbon, 2006, 44, 605-608.	10.3	20
115	Conversion of isopropyl alcohol over Ru and Pd loaded N-doped carbon nanotubes. Chinese Journal of Catalysis, 2014, 35, 970-978.	14.0	20
116	Effect of the Carbon Support on the Catalytic Activity of Rutheniumâ€Magnetite Catalysts for pâ€Chloronitrobenzene Hydrogenation. ChemCatChem, 2015, 7, 2971-2978.	3.7	20
117	CVD from ethylene on cobalt ferrite catalysts: The effect of the support. Carbon, 2005, 43, 2820-2823.	10.3	19
118	Green alcohol oxidation on palladium catalysts supported on amphiphilic hybrid carbon nanotubes. Catalysis Today, 2015, 249, 137-144.	4.4	19
119	Carbon nanotubes as catalysts for wet peroxide oxidation: The effect of surface chemistry. Catalysis Today, 2020, 357, 332-340.	4.4	18
120	Catalysis to discriminate single atoms from subnanometric ruthenium particles in ultra-high loading catalysts. Catalysis Science and Technology, 2020, 10, 4673-4683.	4.1	18
121	Single-step preparation of activated carbon supported platinum catalysts by fluidized bed organometallic chemical vapor deposition. Carbon, 1999, 37, 527-530.	10.3	17
122	Biomolecules Electrochemical Sensing Properties of a PMo11V@N-Doped Few Layer Graphene Nanocomposite. Inorganics, 2015, 3, 178-193.	2.7	17
123	N-doped few-layered graphene-polyNi complex nanocomposite with excellent electrochromic properties. Carbon, 2017, 120, 32-43.	10.3	17
124	Preparation of solar-enhanced AlZnO@carbon nano-substrates for remediation of textile wastewaters. Journal of Environmental Sciences, 2020, 92, 52-68.	6.1	17
125	Beyond confinement effects in Fischer-Tropsch Co/CNT catalysts. Journal of Catalysis, 2021, 397, 156-171.	6.2	17
126	Ethylene Polymerization Catalyzed by Pyreneâ€Tagged Iron Complexes: The Positive Effect of Ïâ€Conjugation and Immobilization on Multiwalled Carbon Nanotubes. ChemCatChem, 2014, 6, 1310-1316.	3.7	16

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127	Reductive Elimination of Anhydrides from Anionic Iodo Acetyl Carboxylato Rhodium Complexes. European Journal of Inorganic Chemistry, 2014, 2014, 326-336.	2.0	16
128	Chemoselective reduction of quinoline over Rhâ€“C₆₀ nanocatalysts. Catalysis Science and Technology, 2019, 9, 6884-6898.	4.1	16
129	Synthesis of selected aromatic aldehydes under UV-LED irradiation over a hybrid photocatalyst of carbon nanofibers and zinc oxide. Catalysis Today, 2019, 328, 286-292.	4.4	16
130	Kinetic modeling study of carbon nanotubes synthesis by fluidized bed chemical vapor deposition. AICHE Journal, 2009, 55, 465-474.	3.6	15
131	Rhodium complexes containing chiral P-donor ligands as catalysts for asymmetric hydrogenation in non conventional media. Catalysis Letters, 2011, 141, 808-816.	2.6	15
132	Potential applicability of Zn0.05TiOxNy@MOF-5 nanocomposite for adsorption and electrochemical detection of Zn(II) in saline wastewater. Journal of Environmental Chemical Engineering, 2021, 9, 106186.	6.7	15
133	Process intensification of the catalytic hydrogenation of squalene using a Pd/CNT catalyst combining nanoparticles and single atoms in a continuous flow reactor. Chemical Engineering Journal, 2022, 441, 135951.	12.7	15
134	A New OMCVD Iridium Precursor for Thin Film Deposition. Chemical Vapor Deposition, 2001, 7, 59-62.	1.3	14
135	Silicon Chemical Vapor Deposition (CVD) on microporous powders in a fluidized bed. Powder Technology, 2001, 120, 82-87.	4.2	14
136	Isoprene Polymerization on Iron Nanoparticles Confined in Carbon Nanotubes. Chemistry - A European Journal, 2015, 21, 17437-17444.	3.3	14
137	Reactivity of Rhodium(I) Complexes Bearing Nitrogen-Containing Ligands toward CH₃I: Synthesis and Full Characterization of Neutral cis-[RhX(CO)₂(L)] and Acetyl [RhI(Î¼-I)(COMe)(CO)(L)]₂ Complexes. Inorganic Chemistry, 2012, 51, 8670-8685.	4.0	13
138	Influence of Carbon Supports on Palladium Nanoparticle Activity toward Hydrodeoxygenation and Aerobic Oxidation in Biomass Transformations. European Journal of Inorganic Chemistry, 2019, 2019, 1979-1987.	2.0	13
139	Ru single atoms and nanoparticles on carbon nanotubes as multifunctional catalysts. Dalton Transactions, 2020, 49, 10250-10260.	3.3	13
140	Surface properties of amphiphilic carbon nanotubes and study of their applicability as basic catalysts. RSC Advances, 2016, 6, 54293-54298.	3.6	12
141	N-doped carbon nanotubes grown on red mud residue: Hybrid nanocomposites for technological applications. Catalysis Today, 2020, 344, 247-258.	4.4	12
142	Nanocatalysts for High Selectivity Enyne Cyclization: Oxidative Surface Reorganization of Gold Sub-2-nm Nanoparticle Networks. Jacs Au, 2021, 1, 187-200.	7.9	12
143	3D Ruthenium Nanoparticle Covalent Assemblies from Polymantane Ligands for Confined Catalysis. Chemistry of Materials, 2020, 32, 2365-2378.	6.7	11
144	Multifunctional Catalytic Properties of Pd/CNT Catalysts for 4â€Nitrophenol Reduction. ChemCatChem, 2022, 14, .	3.7	11

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145	Mechanistic studies of the activation and the decomposition of [Rh2Cl2(CO)4] in organometallic chemical vapour deposition. Journal of Organometallic Chemistry, 1995, 498, 41-47.	1.8	10
146	New efficient Fe2O3 and FeMo supported OMCVD catalysts for single wall carbon nanotubes growth. Catalysis Communications, 2006, 7, 604-609.	3.3	10
147	Synthesis and Theoretical Study of a Series of Dipalladium(I) Complexes Containing the Pd2(Î¼-CO)2Core. Inorganic Chemistry, 2006, 45, 1935-1944.	4.0	10
148	Polyelectrolyteâ€Assisted Noncovalent Functionalization of Carbon Nanotubes with Ordered Selfâ€Assemblies of a Waterâ€Soluble Porphyrin. ChemPhysChem, 2012, 13, 3622-3631.	2.1	10
149	Selective hydrogenation of cinnamaldehyde by unsupported and few layer graphene supported platinum concave nanocubes exposing {110} facets stabilized by a long-chain amine. Catalysis Today, 2020, 357, 166-175.	4.4	10
150	Copper-based magnetic catalysts for alkyne oxidative homocoupling reactions. Molecular Catalysis, 2017, 438, 143-151.	2.0	9
151	Efficient extraction method using magnetic carbon nanotubes to analyze cocaine and benzoylecgonine in breast milk by GC/MS. Bioanalysis, 2017, 9, 1655-1666.	1.5	9
152	hcp â€Co Nanowires Grown on Metallic Foams as Catalysts for Fischerâ€“Tropsch Synthesis. Angewandte Chemie, 2018, 130, 10739-10743.	2.0	9
153	Computational Design of Pd Nanoclusters and Pd Single-Atom Catalysts Supported on O-Functionalized Graphene. ACS Applied Nano Materials, 2021, 4, 12235-12249.	5.0	9
154	Graphitic carbon nitride/few-layer graphene heterostructures for enhanced visible-LED photocatalytic hydrogen generation. International Journal of Hydrogen Energy, 2022, 47, 25555-25570.	7.1	9
155	Cooperative effect between iridium and platinum in the carbonylation of methanol to acetic acid. Topics in Catalysis, 2006, 40, 83-90.	2.8	8
156	Analysis of the Synergistic Effect of Carbonylplatinum Complexes on the Iridium-Catalysed Carbonylation of Methanol to Acetic Acid. European Journal of Inorganic Chemistry, 2006, 2006, 1121-1126.	2.0	8
157	Controlled-growth of platinum nanoparticles on carbon nanotubes or nanospheres by MOCVD in fluidized bed reactor. European Physical Journal Special Topics, 2002, 12, 29-36.	0.2	8
158	Rhodium-catalyzed hydrocarbonylation of acetic acid into higher acids. Journal of Molecular Catalysis A, 1998, 136, 269-278.	4.8	7
159	Surface Reactivity of Transition Metal CVD Precursors: Towards the Control of the Nucleation Step. , 0, , 147-171.		7
160	Introduction to Carbon Nanotubes. , 2004, , 39-98.		6
161	Photodeposition of Au and Pt on ZnO and TiO2. Studies in Surface Science and Catalysis, 2010, 175, 629-633.	1.5	6
162	Enhancement of the hydrogenation activity of a Pd-tridecilamine (TDA) complex by confinement in carbon nanotubes. Microporous and Mesoporous Materials, 2016, 225, 378-384.	4.4	6

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163	A Seedâ€Mediated Approach for the Preparation of Modified Heterogeneous Catalysts. ChemCatChem, 2018, 10, 1614-1619.	3.7	6
164	Reactivity and structural evolution of urchinâ€like Co nanostructures under controlled environments. Journal of Microscopy, 2018, 269, 168-176.	1.8	6
165	Alloyed Pt₃M (M = Co, Ni) nanoparticles supported on S- and N-doped carbon nanotubes for the oxygen reduction reaction. Beilstein Journal of Nanotechnology, 2019, 10, 1251-1269.	2.8	6
166	Geomimetic catalysis: From volcanic stones to ultra-selective Feâ€“Mo/Al2O3â€“TiO2 catalysts for few-walled carbon nanotube production. Carbon, 2013, 64, 219-224.	10.3	5
167	Epsilon Cobalt Nanoparticles as Highly Performant Catalysts in Cinnamaldehyde Selective Hydrogenation. ACS Applied Nano Materials, 2022, 5, 5498-5507.	5.0	5
168	Improving Purity and Size Control of Ironâ€and Molybdenumâ€Supported Nanoparticles Prepared by OMCVD from their Carbonyl Precursors. Chemical Vapor Deposition, 2008, 14, 275-278.	1.3	4
169	Confinement effects on the shape and composition of bimetallic nano-objects in carbon nanotubes. Chemical Communications, 2016, 52, 2362-2365.	4.1	4
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