Kyriaki Polychronopoulou

List of Publications by Year
in descending order

157	7,652	38742 50	64796 79
papers	citations	h-index	g-index

159	159	159	7953
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Silver Nanoparticleâ€Loaded Contact Lenses for Blueâ€Yellow Color Vision Deficiency. Physica Status Solidi (A) Applications and Materials Science, 2022, 219, 2100294.	1.8	14
2	Ni/CNT/Zeolite-Y composite catalyst for efficient heptane hydrocracking: Steady-state and transient kinetic studies. Applied Catalysis A: General, 2022, 630, 118437.	4.3	6
3	Catalytic fast pyrolysis of agricultural residues and dedicated energy crops for the production of high energy density transportation biofuels. Part I: Chemical pathways and bio-oil upgrading. Renewable Energy, 2022, 185, 483-505.	8.9	29
4	Elucidating the role of La3+/Sm3+ in the carbon paths of dry reforming of methane over Ni/Ce-La(Sm)-Cu-O using transient kinetics and isotopic techniques. Applied Catalysis B: Environmental, 2022, 304, 121015.	20.2	23
5	Solventâ€Influenced Fragmentations in Freeâ€Standing Threeâ€Dimensional Covalent Organic Framework Membranes for Hydrophobicity Switching. Angewandte Chemie - International Edition, 2022, 61, .	13.8	24
6	A comparative study of Ni catalysts supported on Al2O3, MgOâ€“CaOâ€“Al2O3 and La2O3â€“Al2O3 for the dry reforming of ethane. International Journal of Hydrogen Energy, 2022, 47, 5337-5353.	7.1	26
7	Cerium oxide catalysts for oxidative coupling of methane reaction: Effect of lithium, samarium and lanthanum dopants. Journal of Environmental Chemical Engineering, 2022, 10, 107259.	6.7	18
8	Hydrogen production via steam reforming of glycerol over Ce-La-Cu-O ternary oxide catalyst: An experimental and DFT study. Applied Surface Science, 2022, 586, 152798.	6.1	16
9	Oxidative coupling of methane on Li/CeO2 based catalysts: Investigation of the effect of Mg- and La-doping of the CeO2 support. Molecular Catalysis, 2022, 520, 112157.	2.0	9
10	Titelbild: Solventâ€Influenced Fragmentations in Freeâ€Standing Threeâ€Dimensional Covalent Organic Framework Membranes for Hydrophobicity Switching (Angew. Chem. 13/2022). Angewandte Chemie, 2022, 134, .	2.0	0
11	Catalytic fast pyrolysis of agricultural residues and dedicated energy crops for the production of high energy density transportation biofuels. Part II: Catalytic research. Renewable Energy, 2022, 189, 315-338.	8.9	18
12	Role of embedding choline chloride-urea deep eutectic solvent on biomass-derived porous activated carbon in its capacitive deionization performance. Desalination, 2022, 530, 115674.	8.2	11
13	Optimizing the oxide support composition in Pr-doped CeO2 towards highly active and selective Ni-based CO2 methanation catalysts. Journal of Energy Chemistry, 2022, 71, 547-561.	12.9	36
14	Transition Metal Phosphides (TMP) as a Versatile Class of Catalysts for the Hydrodeoxygenation Reaction (HDO) of Oil-Derived Compounds. Nanomaterials, 2022, 12, 1435.	4.1	18
15	Towards maximizing conversion of ethane and carbon dioxide into synthesis gas using highly stable Ni-perovskite catalysts. Journal of CO2 Utilization, 2022, 61, 102046.	6.8	14
16	Insights into the thermal stability and conversion of carbon-based materials by using ReaxFF reactive force field: Recent advances and future directions. Carbon, 2022, 196, 840-866.	10.3	32
17	Polythiacalixarene-Embedded Gold Nanoparticles for Visible-Light-Driven Photocatalytic CO₂ Reduction. ACS Applied Materials & Interfaces, 2022, 14, 30796-30801.	8.0	8
18	Decoupling the Chemical and Mechanical Strain Effect on Steering the CO₂ Activation over CeO₂-Based Oxides: An Experimental and DFT Approach. ACS Applied Materials & Interfaces, 2022, 14, 33094-33119.	8.0	17

#	Article	IF	Citations
19	Nano-zerovalent manganese/biochar composite for the adsorptive and oxidative removal of Congo-red dye from aqueous solutions. Journal of Hazardous Materials, 2021, 403, 123854.	12.4	144
20	Highly selective and stable nickel catalysts supported on ceria promoted with Sm2O3, Pr2O3 and MgO for the CO2 methanation reaction. Applied Catalysis B: Environmental, 2021, 282, 119562.	20.2	149
21	Continuous selective deoxygenation of palm oil for renewable diesel production over Ni catalysts supported on Al₂O₃and La₂O₃â€“Al₂O₃. RSC Advances, 2021, 11, 8569-8584.	3.6	21
22	A DFT study of the adsorption energy and electronic interactions of the SO₂ molecule on a CoP hydrotreating catalyst. RSC Advances, 2021, 11, 2947-2957.	3.6	49
23	Design Aspects of Doped CeO₂ for Low-Temperature Catalytic CO Oxidation: Transient Kinetics and DFT Approach. ACS Applied Materials & Interfaces, 2021, 13, 22391-22415.	8.0	70
24	High entropy oxides-exploring a paradigm of promising catalysts: A review. Materials and Design, 2021, 202, 109534.	7.0	140
25	Photocatalytic Degradation of Ethiofencarb by a Visible Light-Driven SnIn4S8 Photocatalyst. Nanomaterials, 2021, 11, 1325.	4.1	16
26	Ni₂P Nanoparticles Embedded in Mesoporous SiO₂ for Catalytic Hydrogenation of SO₂ to Elemental S. ACS Applied Nano Materials, 2021, 4, 5665-5676.	5.0	14
27	Adsorption of Hydrogen Sulfide at Low Temperatures Using an Industrial Molecular Sieve: An Experimental and Theoretical Study. ACS Omega, 2021, 6, 14774-14787.	3.5	29
28	Nickel Phosphide Nanoparticles for Selective Hydrogenation of SO₂ to H₂S. ACS Applied Nano Materials, 2021, 4, 6568-6582.	5.0	11
29	Editorialâ€”Special Issue â€œCatalysis for Energy Productionâ€• Catalysts, 2021, 11, 785.	3.5	1
30	CO Oxidation at Near-Ambient Temperatures over TiO2-Supported Pd-Cu Catalysts: Promoting Effect of Pd-Cu Nanointerface and TiO2 Morphology. Nanomaterials, 2021, 11, 1675.	4.1	4
31	Highly selective and stable Ni/La-M (M=Sm, Pr, and Mg)-CeO2 catalysts for CO2 methanation. Journal of CO2 Utilization, 2021, 51, 101618.	6.8	78
32	Metal-Free Phosphated Mesoporous SiO2 as Catalyst for the Low-Temperature Conversion of SO2 to H2S in Hydrogen. Nanomaterials, 2021, 11, 2440.	4.1	1
33	Nanoindentation and nanoscratch of sub-micron polymer nanocomposite films on compliant substrate. Thin Solid Films, 2021, 736, 138905.	1.8	2
34	Creep rupture in HP-Nb refractory steel tubes due to short-term overheating. European Journal of Materials, 2021, 1, 1-22.	2.6	1
35	Ni/Y2O3â€“ZrO2 catalyst for hydrogen production through the glycerol steam reforming reaction. International Journal of Hydrogen Energy, 2020, 45, 10442-10460.	7.1	85
36	Nano zerovalent zinc catalyzed peroxymonosulfate based advanced oxidation technologies for treatment of chlorpyrifos in aqueous solution: A semi-pilot scale study. Journal of Cleaner Production, 2020, 246, 119032.	9.3	62

#	Article	IF	Citations
37	Deep eutectic solvent-mediated synthesis of ceria nanoparticles with the enhanced yield for photocatalytic degradation of flumequine under UV-C. Journal of Water Process Engineering, 2020, 33, 101012.	5.6	67
38	Morphology-dependent electrochemical performance of MnO2 nanostructures on graphene towards efficient capacitive deionization. Electrochimica Acta, 2020, 330, 135202.	5.2	55
39	Solar light responsive bismuth doped titania with Ti3+ for efficient photocatalytic degradation of flumequine: Synergistic role of peroxymonosulfate. Chemical Engineering Journal, 2020, 384, 123255.	12.7	62
40	Cu-Ce-La-Ox as efficient CO oxidation catalysts: Effect of Cu content. Applied Surface Science, 2020, 505, 144474.	6.1	39
41	Promoting effect of CaO-MgO mixed oxide on Ni/Î³-Al2O3 catalyst for selective catalytic deoxygenation of palm oil. Renewable Energy, 2020, 162, 1793-1810.	8.9	47
42	Ultrasmall Metal-Doped CeO₂ Nanoparticles for Low-Temperature CO Oxidation. ACS Applied Nano Materials, 2020, 3, 10805-10813.	5.0	33
43	The Effect of Noble Metal (M: Ir, Pt, Pd) on M/Ce2O3-Î³-Al2O3 Catalysts for Hydrogen Production via the Steam Reforming of Glycerol. Catalysts, 2020, 10, 790.	3.5	18
44	A Review on New 3-D Printed Materialsâ€™ Geometries for Catalysis and Adsorption: Paradigms from Reforming Reactions and CO2 Capture. Nanomaterials, 2020, 10, 2198.	4.1	22
45	Effect of operating parameters on the selective catalytic deoxygenation of palm oil to produce renewable diesel over Ni supported on Al2O3, ZrO2 and SiO2 catalysts. Fuel Processing Technology, 2020, 209, 106547.	7.2	65
46	Graphene Nanoplatelets-Based Ni-Zeolite Composite Catalysts for Heptane Hydrocracking. Journal of Carbon Research, 2020, 6, 31.	2.7	5
47	Nano-zerovalent copper as a Fenton-like catalyst for the degradation of ciprofloxacin in aqueous solution. Journal of Water Process Engineering, 2020, 37, 101325.	5.6	48
48	Activated Carbon Derived from Phoenix dactylifera (Palm Tree) and Decorated with MnO₂ Nanoparticles for Enhanced Hybrid Capacitive Deionization Electrodes. ChemistrySelect, 2020, 5, 3248-3256.	1.5	29
49	Recent Advances in Metal-Catalyzed Alkylâ€“Boron (C(sp3)â€“C(sp2)) Suzuki-Miyaura Cross-Couplings. Catalysts, 2020, 10, 296.	3.5	39
50	Synthesis and performance evaluation of hydrocracking catalysts: A review. Journal of Industrial and Engineering Chemistry, 2020, 89, 83-103.	5.8	68
51	Microporous Elastomer Filter Coated with Metal Organic Frameworks for Improved Selectivity and Stability of Metal Oxide Gas Sensors. ACS Applied Materials & Interfaces, 2020, 12, 13338-13347.	8.0	39
52	Synthesis of nitrogen-doped Ceria nanoparticles in deep eutectic solvent for the degradation of sulfamethaxazole under solar irradiation and additional antibacterial activities. Chemical Engineering Journal, 2020, 394, 124869.	12.7	65
53	Synthesis of hierarchical porous Zeolite-Y for enhanced CO2 capture. Microporous and Mesoporous Materials, 2020, 303, 110261.	4.4	73
54	Cu, Sm co-doping effect on the CO oxidation activity of CeO2. A combined experimental and density functional study. Applied Surface Science, 2020, 521, 146305.	6.1	61

#	Article	IF	Citations
55	Mesoporous silica â€œplatedâ€•copper hydroxides/oxides heterostructures as superior regenerable sorbents for low temperature H2S removal. Chemical Engineering Journal, 2020, 398, 125585.	12.7	20
56	Investigating the correlation between deactivation and the carbon deposited on the surface of Ni/Al2O3 and Ni/La2O3-Al2O3 catalysts during the biogas reforming reaction. Applied Surface Science, 2019, 474, 42-56.	6.1	128
57	The Relationship between Reaction Temperature and Carbon Deposition on Nickel Catalysts Based on Al2O3, ZrO2 or SiO2 Supports during the Biogas Dry Reforming Reaction. Catalysts, 2019, 9, 676.	3.5	72
58	Ni Catalysts Based on Attapulgite for Hydrogen Production through the Glycerol Steam Reforming Reaction. Catalysts, 2019, 9, 650.	3.5	23
59	Nanostructured Fe-Ni Sulfide: A Multifunctional Material for Energy Generation and Storage. Catalysts, 2019, 9, 597.	3.5	21
60	An Efficient Method to Predict Compressibility Factor of Natural Gas Streams. Energies, 2019, 12, 2577.	3.1	16
61	Synergistic effects of activated carbon and nano-zerovalent copper on the performance of hydroxyapatite-alginate beads for the removal of As3+ from aqueous solution. Journal of Cleaner Production, 2019, 235, 875-886.	9.3	108
62	Ceâ€“Smâ€“xCu cost-efficient catalysts for H₂ production through the glycerol steam reforming reaction. Sustainable Energy and Fuels, 2019, 3, 673-691.	4.9	34
63	Nickel Supported on AlCeO3 as a Highly Selective and Stable Catalyst for Hydrogen Production via the Glycerol Steam Reforming Reaction. Catalysts, 2019, 9, 411.	3.5	39
64	Influence of salt on nanozeolite-Y particles size synthesized under organic template-free condition. Microporous and Mesoporous Materials, 2019, 282, 73-81.	4.4	19
65	Electrodeposited Nanostructured CoFe2O4 for Overall Water Splitting and Supercapacitor Applications. Catalysts, 2019, 9, 176.	3.5	65
66	Development of novel surfactant functionalized porous graphitic carbon as an efficient adsorbent for the removal of methylene blue dye from aqueous solutions. Journal of Water Process Engineering, 2019, 28, 69-81.	5.6	37
67	Ni supported on CaO-MgO-Al2O3 as a highly selective and stable catalyst for H2 production via the glycerol steam reforming reaction. International Journal of Hydrogen Energy, 2019, 44, 256-273.	7.1	138
68	The influence of SiO2 doping on the Ni/ZrO2 supported catalyst for hydrogen production through the glycerol steam reforming reaction. Catalysis Today, 2019, 319, 206-219.	4.4	67
69	Calix[4]arene-Based Porous Organic Nanosheets. ACS Applied Materials & Interfaces, 2018, 10, 17359-17365.	8.0	39
70	Underwater Robotic Welding of Lap Joints with Sandwiched Reactive Multilayers: Thermal, Mechanical and Material Analysis. MRS Advances, 2018, 3, 911-920.	0.9	3
71	Tailoring the efficiency of an active catalyst for CO abatement through oxidation reaction: The case study of samarium-doped ceria. Journal of Environmental Chemical Engineering, 2018, 6, 266-280.	6.7	28
72	Studying the stability of Ni supported on modified with CeO2 alumina catalysts for the biogas dry reforming reaction. Materials Today: Proceedings, 2018, 5, 27607-27616.	1.8	17

#	Article	IF	Citations
73	The Effect of Ni Addition onto a Cu-Based Ternary Support on the H2 Production over Glycerol Steam Reforming Reaction. Nanomaterials, 2018, 8, 931.	4.1	24
74	Tuning the activity of Cu-containing rare earth oxide catalysts for CO oxidation reaction: Cooling while heating paradigm in microwave-assisted synthesis. Materials Research Bulletin, 2018, 108, 142-150.	5.2	25
75	An in depth investigation of deactivation through carbon formation during the biogas dry reforming reaction for Ni supported on modified with CeO2 and La2O3 zirconia catalysts. International Journal of Hydrogen Energy, 2018, 43, 18955-18976.	7.1	165
76	Cu-Ce-O catalyst revisited for exceptional activity at low temperature CO oxidation reaction. Surface and Coatings Technology, 2018, 354, 313-323.	4.8	31
77	Elevated-Temperature and -Pressure Tribology of Drilling Fluids Used in Oil and Gas Extended-Reach-Drilling Applications. SPE Journal, 2018, 23, 2339-2350.	3.1	10
78	Hierarchical AlPO4-5 and SAPO-5 microporous molecular sieves with mesoporous connectivity for water sorption applications. Surface and Coatings Technology, 2018, 353, 378-386.	4.8	37
79	Reduced Graphene Oxide: Effect of Reduction on Electrical Conductivity. Journal of Composites Science, 2018, 2, 25.	3.0	61
80	Synthesis of nanoporous zeolite-Y and zeolite-Y/GO nanocomposite using polyelectrolyte functionalized graphene oxide. Surface and Coatings Technology, 2018, 350, 369-375.	4.8	22
81	Nano-architectural advancement of CeO2-driven catalysis via electrospinning. Surface and Coatings Technology, 2018, 350, 245-280.	4.8	12
82	The potential of glycerol and phenol towards H2 production using steam reforming reaction: A review. Surface and Coatings Technology, 2018, 352, 92-111.	4.8	71
83	Highly Hydrophobic ZIFâ€8/Carbon Nitride Foam with Hierarchical Porosity for Oil Capture and Chemical Fixation of CO₂. Advanced Functional Materials, 2017, 27, 1700706.	14.9	119
84	Three-body abrasive wear by (silica) sand of advanced polymeric coatings for tilting pad bearings. Wear, 2017, 382-383, 40-50.	3.1	38
85	Solvothermal synthesis, nanostructural characterization and gas cryo-adsorption studies in a metalâ€“organic framework (IRMOF-1) material. International Journal of Hydrogen Energy, 2017, 42, 23899-23907.	7.1	28
86	Hydrogen production via the glycerol steam reforming reaction over nickel supported on alumina and lanthana-alumina catalysts. International Journal of Hydrogen Energy, 2017, 42, 13039-13060.	7.1	100
87	Glycerol Steam Reforming for Hydrogen Production over Nickel Supported on Alumina, Zirconia and Silica Catalysts. Topics in Catalysis, 2017, 60, 1226-1250.	2.8	79
88	Transition metal complex directed synthesis of porous cationic polymers for efficient CO2 capture and conversion. Polymer, 2017, 126, 296-302.	3.8	15
89	Rapid microwave assisted sol-gel synthesis of CeO2 and CexSm1-xO2 nanoparticle catalysts for CO oxidation. Molecular Catalysis, 2017, 428, 41-55.	2.0	62
90	Influence of Graphene Reduction and Polymer Cross-Linking on Improving the Interfacial Properties of Multilayer Thin Films. ACS Applied Materials & Interfaces, 2017, 9, 1107-1118.	8.0	19

#	Article	IF	Citations
91	High temperature nanotribology of ultra-thin hydrogenated amorphous carbon coatings. Carbon, 2017, 123, 112-121.	10.3	27
92	Nanoporous activated carbon cloth as a versatile material for hydrogen adsorption, selective gas separation and electrochemical energy storage. Nano Energy, 2017, 40, 49-64.	16.0	101
93	Mercouri G. Kanatzidis: Excellence and Innovations in Inorganic and Solid-State Chemistry. Inorganic Chemistry, 2017, 56, 7582-7597.	4.0	7
94	Chemical Blowing Approach for Ultramicroporous Carbon Nitride Frameworks and Their Applications in Gas and Energy Storage. Advanced Functional Materials, 2017, 27, 1604658.	14.9	92
95	The Effect of WO3 Modification of ZrO2 Support on the Ni-Catalyzed Dry Reforming of Biogas Reaction for Syngas Production. Frontiers in Environmental Science, 2017, 5, .	3.3	26
96	Synthesis and properties of 1D Sm-doped CeO2 composite nanofibers fabricated using a coupled electrospinning and solâ€“gel methodology. Ceramics International, 2016, 42, 10734-10744.	4.8	20
97	Multifunctional redox-tuned viologen-based covalent organic polymers. Journal of Materials Chemistry A, 2016, 4, 15361-15369.	10.3	114
98	Synthesis of Highly Porous Coordination Polymers with Open Metal Sites for Enhanced Gas Uptake and Separation. ACS Applied Materials & Interfaces, 2016, 8, 26860-26867.	8.0	46
99	Few-step synthesis, thermal purification and structural characterization of porous boron nitride nanoplatelets. Materials and Design, 2016, 110, 540-548.	7.0	23
100	Porous cationic polymers: the impact of counteranions and charges on CO‹sub›2‹/sub›capture and conversion. Chemical Communications, 2016, 52, 934-937.	4.1	162
101	Lightweight and Highly Conductive Aerogel-like Carbon from Sugarcane with Superior Mechanical and EMI Shielding Properties. ACS Sustainable Chemistry and Engineering, 2015, 3, 1419-1427.	6.7	160
102	Nanomechanical and nanotribological behaviors of hafnium boride thin films. Thin Solid Films, 2015, 595, 84-91.	1.8	14
103	Nanoporous spongy graphene: Potential applications for hydrogen adsorption and selective gas separation. Thin Solid Films, 2015, 596, 242-249.	1.8	23
104	Synthesis of nanoporous graphene oxide adsorbents by freeze-drying or microwave radiation: Characterization and hydrogen storage properties. International Journal of Hydrogen Energy, 2015, 40, 6844-6852.	7.1	30
105	Chalcogenide Aerogels as Sorbents for Radioactive Iodine. Chemistry of Materials, 2015, 27, 2619-2626.	6.7	186
106	Low-temperature water-gas shift on Pt/Ce0.8La0.2O2âˆ'Îâ€“CNT: The effect of Ce0.8La0.2O2âˆ'Î/CNT ratio. Applied Catalysis A: General, 2015, 504, 585-598.	4.3	15
107	Nanoporous Polymers Incorporating Sterically Confined ‹i›N‹/i›-Heterocyclic Carbenes for Simultaneous CO‹sub›2‹/sub› Capture and Conversion at Ambient Pressure. Chemistry of Materials, 2015, 27, 6818-6826.	6.7	116
108	Thermal and chemical stability of hexagonal boron nitride (h-BN) nanoplatelets. Vacuum, 2015, 112, 42-45.	3.5	236

#	Article	IF	Citations
109	Hierarchical structures produced using unbalanced magnetron sputtering for photocatalytic degradation of Rhodamine 6G dye. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	1
110	Carbon Aerogel from Winter Melon for Highly Efficient and Recyclable Oils and Organic Solvents Absorption. ACS Sustainable Chemistry and Engineering, 2014, 2, 1492-1497.	6.7	296
111	From biomass to high performance solarâ€“thermal and electricâ€“thermal energy conversion and storage materials. Journal of Materials Chemistry A, 2014, 2, 7759-7765.	10.3	213
112	Shear strength measurements of hafnium diboride thin solid films. Wear, 2014, 318, 168-176.	3.1	7
113	Tribological performance comparing different refrigerantâ€“lubricant systems: The case of environmentally friendly HFO-1234yf refrigerant. Tribology International, 2014, 78, 176-186.	5.9	28
114	Highly Electrically Conductive Nanocomposites Based on PolymerInfused Graphene Sponges. Scientific Reports, 2014, 4, 4652.	3.3	45
115	Waterâ€“Gas Shift Reaction on Pt/Ce_{1â€“x}Ti_xO_{2â^'Î´}: The Effect of Ce/Ti Ratio. Journal of Physical Chemistry C, 2013, 117, 25467-25477.	3.1	48
116	Tribological performance of environmentally friendly refrigerant HFO-1234 yf under starved lubricated conditions. Wear, 2013, 304, 191-201.	3.1	16
117	Chalcogen-Based Aerogels As Sorbents for Radionuclide Remediation. Environmental Science & Technology, 2013, 47, 7540-7547.	10.0	161
118	Lubricity of environmentally friendly HFO-1234yf refrigerant. Tribology International, 2013, 57, 92-100.	5.9	27
119	Novel Catalytic Systems for Hydrogen Production via the Water-Gas Shift Reaction. Conference Papers in Energy, 2013, 2013, 1-8.	0.6	2
120	Selective Surfaces: Quaternary Co(Ni)MoS-Based Chalcogels with Divalent (Pb²⁺,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 30 Separation. Chemistry of Materials, 2012, 24, 3380-3392.	6.7	63
121	Oxy-chlorination as an effective treatment of aged Pd/CeO2-Al2O3 catalysts for Pd redispersion. Applied Catalysis B: Environmental, 2012, 111-112, 349-359.	20.2	20
122	Tailoring MgO-based supported Rh catalysts for purification of gas streams from phenol. Applied Catalysis B: Environmental, 2012, 111-112, 360-375.	20.2	52
123	NOx Control via H2-Selective Catalytic Reduction (H2-SCR) Technology for Stationary and Mobile Applications. Recent Patents on Materials Science, 2012, 5, 87-104.	0.5	23
124	Novel CeO2-based screen-printed potentiometric electrodes for pH monitoring. Talanta, 2011, 87, 126-135.	5.5	24
125	Textured VN coatings with Ag3VO4 solid lubricant reservoirs. Surface and Coatings Technology, 2011, 206, 1932-1935.	4.8	31
126	Deposition and Nanotribological Characterization of Sub-100-nm Thick Protective Ti-Based Coatings for Miniature Applications. Tribology Letters, 2011, 44, 213-221.	2.6	13

#	Article	IF	Citations
127	Tribological study of high bearing blended polymer-based coatings for air-conditioning and refrigeration compressors. Surface and Coatings Technology, 2011, 205, 2994-3005.	4.8	33
128	Ceria-Based Materials for Hydrogen Production Via Hydrocarbon Steam Reforming and Water-Gas Shift Reactions. Recent Patents on Materials Science, 2011, 4, 122-145.	0.5	25
129	Ceria-Based Materials for Hydrogen Production Via Hydrocarbon Steam Reforming and Water-Gas Shift Reactions. Recent Patents on Materials Science, 2011, 4, 122-145.	0.5	8
130	Analytical model for geometrical characteristics control of laser sintered surfaces. International Journal of Nanomanufacturing, 2010, 6, 300.	0.3	9
131	Effect of Cu Content on the Structure, and Performance of Substoichiometric Crâ€“N Coatings. Tribology Letters, 2010, 38, 57-68.	2.6	10
132	Structure and mechanical properties of low temperature magnetron sputtered nanocrystalline (nc-)Ti(N,C)/amorphous diamond like carbon (a-C:H) coatings. Thin Solid Films, 2010, 519, 24-30.	1.8	12
133	Comparative scuffing performance and chemical analysis of metallic surfaces for air-conditioning compressors in the presence of environmentally friendly CO2 refrigerant. Wear, 2010, 268, 668-676.	3.1	15
134	Lubricity effect of carbon dioxide used as an environmentally friendly refrigerant in air-conditioning and refrigeration compressors. Wear, 2010, 270, 46-56.	3.1	17
135	Adaptive VN/Ag nanocomposite coatings with lubricious behavior from 25 to 1000Â°C. Acta Materialia, 2010, 58, 5326-5331.	7.9	177
136	Low-temperature catalytic decomposition of ethylene into H2 and secondary carbon nanotubes over Ni/CNTs. Applied Catalysis B: Environmental, 2010, 93, 314-324.	20.2	23
137	Growth and characterization of ceria thin films and Ce-doped Î³-Al₂O₃nanowires using solâ€“gel techniques. Nanotechnology, 2010, 21, 465606.	2.6	16
138	Mechanical and high pressure tribological properties of nanocrystalline Ti(N,C) and amorphous C:H nanocomposite coatings. Diamond and Related Materials, 2010, 19, 960-963.	3.9	9
139	Room temperature synthesis and high temperature frictional study of silver vanadate nanorods. Nanotechnology, 2010, 21, 325601.	2.6	40
140	The nanostructure, wear and corrosion performance of arc-evaporated CrBxNy nanocomposite coatings. Surface and Coatings Technology, 2009, 204, 246-255.	4.8	33
141	The significance of tribochemistry on the performance of PTFE-based coatings in CO2 refrigerant environment. Surface and Coatings Technology, 2009, 204, 319-329.	4.8	39
142	Effect of humic acid on the solid phase stability of UO2CO3. Journal of Radioanalytical and Nuclear Chemistry, 2009, 279, 863-866.	1.5	6
143	Effects of Solâ^'Gel Synthesis on 5Feâ^'15Mnâ^'40Znâ^'40Tiâ^'O Mixed Oxide Structure and its H₂S Removal Efficiency from Industrial Gas Streams. Environmental Science & Technology, 2009, 43, 4367-4372.	10.0	34
144	Tribological Properties of Twin Electron-Beam Evaporated Crâ€“N and Alâ€“Crâ€“N Coatings Under Laboratory Sliding and Drill Experiments. Tribology Letters, 2008, 32, 117-127.	2.6	8

#	Article	IF	Citations
145	Tribological Study Comparing PAG and POE Lubricants Used in Air-Conditioning Compressors under the Presence of CO₂. Tribology Transactions, 2008, 51, 790-797.	2.0	15
146	Nanostructure, mechanical and tribological properties of reactive magnetron sputtered TiCx coatings. Diamond and Related Materials, 2008, 17, 2054-2061.	3.9	61
147	Synthesis and characterization of Crâ€“Bâ€“N coatings deposited by reactive arc evaporation. Journal of Materials Research, 2008, 23, 3048-3055.	2.6	17
148	Microstructure, Mechanical and Tribological Properties of Reactive Magnetron Sputtered Titanium Carbide Coatings. , 2007, , .		0
149	The role of oxygen and hydroxyl support species on the mechanism of H2 production in the steam reforming of phenol over metal oxide-supported-Rh and -Fe catalysts. Catalysis Today, 2006, 112, 89-93.	4.4	60
150	Spillover of labile OH, H, and O species in the H2 production by steam reforming of phenol over supported-Rh catalysts. Catalysis Today, 2006, 116, 341-347.	4.4	50
151	Absorption-enhanced reforming of phenol by steam over supported Fe catalysts. Journal of Catalysis, 2006, 241, 132-148.	6.2	129
152	Novel Feâ€“Mnâ€“Znâ€“Tiâ€“O mixed-metal oxides for the low-temperature removal of H2S from gas streams in the presence of H2, CO2, and H2O. Journal of Catalysis, 2005, 236, 205-220.	6.2	71
153	Novel Znâ€“Ti-based mixed metal oxides for low-temperature adsorption of H2S from industrial gas streams. Applied Catalysis B: Environmental, 2005, 57, 125-137.	20.2	92
154	The phenol steam reforming reaction over MgO-based supported Rh catalysts. Journal of Catalysis, 2004, 228, 417-432.	6.2	136
155	The steam reforming of phenol reaction over supported-Rh catalysts. Applied Catalysis A: General, 2004, 272, 37-52.	4.3	93
156	An Investigation of the NO/H2/O2 (Lean De-NOx) Reaction on a Highly Active and Selective Pt/La0.7Sr0.2Ce0.1FeO3 Catalyst at Low Temperatures. Journal of Catalysis, 2002, 209, 456-471.	6.2	123
157	Solvent Influenced Fragmentations in Freeâ€Standing Threeâ€Dimensional Covalent Organic Framework Membranes for Hydrophobicity Switching. Angewandte Chemie, 0, , .	2.0	0