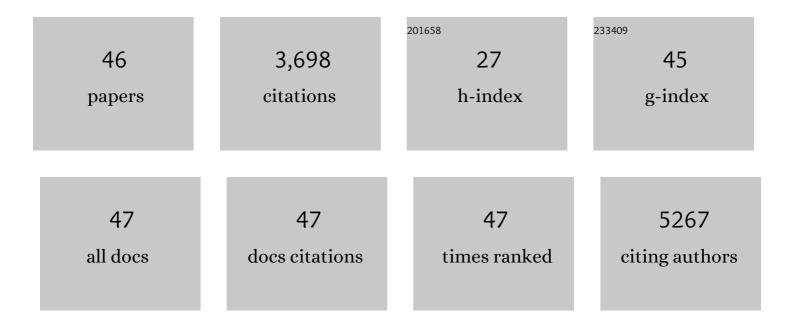
Carlos LÃ³pez-Cartes

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A direct in situ observation of water-enhanced proton conductivity of Eu-doped ZrO2: Effect on WGS reaction. Applied Catalysis B: Environmental, 2018, 231, 343-356.	20.2	18
2	Isosymmetric structural phase transition of the orthorhombic lanthanum gallate structure as a function of temperature determined by Rietveld analysis. CrystEngComm, 2018, 20, 5562-5569.	2.6	4
3	CO/H2 adsorption on a Ru/Al2O3 model catalyst for Fischer Trospch: Effect of water concentration on the surface species. Applied Catalysis B: Environmental, 2018, 237, 986-995.	20.2	24
4	Gold catalysts screening in base-free aerobic oxidation of glucose to gluconic acid. Catalysis Today, 2017, 279, 148-154.	4.4	48
5	Synthesis and characterization of Rh/MnO 2 -CeO 2 /Al 2 O 3 catalysts for CO-PrOx reaction. Molecular Catalysis, 2017, 440, 9-18.	2.0	14
6	Exploring the benefits of depositing hard TiN thin films by non-reactive magnetron sputtering. Applied Surface Science, 2013, 275, 121-126.	6.1	19
7	Analysis and application of the theories that rationalize the crystalline structures of fluorite-related rare earth oxides. Catalysis Today, 2012, 180, 161-166.	4.4	0
8	Microstructural study of the LiBH4–MgH2 reactive hydride composite with and without Ti-isopropoxide additive. Acta Materialia, 2010, 58, 5683-5694.	7.9	71
9	Self-lubricating Ti–C–N nanocomposite coatings prepared by double magnetron sputtering. Solid State Sciences, 2009, 11, 660-670.	3.2	37
10	Thermal Stability and Oxidation Resistance of Nanocomposite TiC/a Protective Coatings. Plasma Processes and Polymers, 2009, 6, S462.	3.0	12
11	Thermal Evolution of WC/C Nanostructured Coatings by Raman and In Situ XRD Analysis. Plasma Processes and Polymers, 2009, 6, S444.	3.0	51
12	Influence of the microstructure on the mechanical and tribological behavior of TiC/a-C nanocomposite coatings. Thin Solid Films, 2009, 517, 1662-1671.	1.8	152
13	Tribological behaviour of titanium carbide/amorphous carbon nanocomposite coatings: From macro to the micro-scale. Surface and Coatings Technology, 2008, 202, 4011-4018.	4.8	99
14	Thiolâ€immobilized silver nanoparticle aggregate films for surface enhanced Raman scattering. Journal of Raman Spectroscopy, 2008, 39, 1162-1169.	2.5	49
15	Comparative performance of nanocomposite coatings of TiC or TiN dispersed in a-C matrixes. Surface and Coatings Technology, 2008, 203, 756-760.	4.8	23
16	Synthesis of Supported Single-Crystalline Organic Nanowires by Physical Vapor Deposition. Chemistry of Materials, 2008, 20, 7371-7373.	6.7	40
17	Synthesis of nanocrystalline MgH2 powder by gas-phase condensation and in situ hydridation: TEM, XPS and XRD study. Journal of Alloys and Compounds, 2007, 434-435, 721-724.	5.5	28
18	Characterization of nanostructured Ti–B–(N) coatings produced by direct current magnetron sputtering. Thin Solid Films, 2007, 515, 3590-3596.	1.8	26

CARLOS LÃ³PEZ-CARTES

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19	Structural Characterization and Oxidative Dehydrogenation Activity of V2O5/CexZr1-xO2/SiO2Catalysts. Journal of Physical Chemistry B, 2006, 110, 9140-9147.	2.6	63
20	Magnetic and microstructural analysis of palladium nanoparticles with different capping systems. Physical Review B, 2006, 73, .	3.2	63
21	Nb2O5 "Pathway Effect―on Hydrogen Sorption in Mg. Journal of Physical Chemistry B, 2006, 110, 7845-7850.	2.6	111
22	Chemical and microstructural study of the oxygen passivation behaviour of nanocrystalline Mg and MgH2. Applied Surface Science, 2006, 252, 2334-2345.	6.1	128
23	A nanoscale approach for the characterization of amorphous carbon-based lubricant coatings. Surface and Coatings Technology, 2005, 200, 40-45.	4.8	14
24	Mechanical properties of nanocrystalline Ti–B–(N) coatings produced by DC magnetron sputtering. Surface and Coatings Technology, 2005, 200, 734-738.	4.8	15
25	Magnetron sputtering of Cr(Al)N coatings: Mechanical and tribological study. Surface and Coatings Technology, 2005, 200, 192-197.	4.8	90
26	Tailored synthesis of TiCâ^•a-C nanocomposite tribological coatings. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2005, 23, 1732-1736.	2.1	33
27	Mechanical behavior and oxidation resistance of Cr(Al)N coatings. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2005, 23, 681-686.	2.1	63
28	Structural Characterization of CeO2â^'ZrO2/TiO2and V2O5/CeO2â^'ZrO2/TiO2Mixed Oxide Catalysts by XRD, Raman Spectroscopy, HREM, and Other Techniques. Journal of Physical Chemistry B, 2005, 109, 1781-1787.	2.6	37
29	Gold Nanoparticles with Different Capping Systems:Â An Electronic and Structural XAS Analysis. Journal of Physical Chemistry B, 2005, 109, 8761-8766.	2.6	68
30	Surface Stabilized Nanosized CexZr1-xO2Solid Solutions over SiO2:Â Characterization by XRD, Raman, and HREM Techniquesâ€. Journal of Physical Chemistry B, 2005, 109, 13545-13552.	2.6	53
31	Atomic-scale imaging of carbon nanofibre growth. Nature, 2004, 427, 426-429.	27.8	1,318
32	Some contributions of electron microscopy to the characterisation of the strong metal–support interaction effect. Catalysis Today, 2003, 77, 385-406.	4.4	181
33	Ferromagnetism in fcc Twinned 2.4Ânm Size Pd Nanoparticles. Physical Review Letters, 2003, 91, 237203.	7.8	172
34	In situ transmission electron microscopy investigation of Ce(iv) and Pr(iv) reducibility in a Rh (1%)/Ce0.8Pr0.2O2–x catalyst. Chemical Communications, 2003, , 644-645.	4.1	30
35	CHEMICAL AND NANOSTRUCTURAL ASPECTS OF THE PREPARATION AND CHARACTERISATION OF CERIA AND CERIA-BASED MIXED OXIDE-SUPPORTED METAL CATALYSTS. Catalytic Science Series, 2002, , 85-168.	0.0	25
36	Study of the Structural Modifications Induced by Reducing Treatments on a Pd/Ce0.8Tb0.2O2-x/La2O3â^Al2O3Catalyst by Means of X-ray Diffraction and Electron Microscopy Techniques. Chemistry of Materials, 2002, 14, 1405-1410.	6.7	17

CARLOS LÃ³PEZ-CARTES

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37	Metal Sintering in Rh/Al2O3Catalysts Followed by HREM,1H NMR, and H2Chemisorption. Langmuir, 2001, 17, 2720-2726.	3.5	15
38	Title is missing!. Catalysis Letters, 2001, 76, 131-137.	2.6	27
39	Structure of highly dispersed metals and oxides: exploring the capabilities of high-resolution electron microscopy. Surface and Interface Analysis, 2000, 29, 411-421.	1.8	35
40	Nanostructural evolution of high loading Rh/lanthana catalysts through the preparation and reduction steps. Catalysis Today, 1999, 52, 29-43.	4.4	19
41	Rare-earth oxides with fluorite-related structures: their systematic investigation using HREM images, image simulations and electron diffraction pattern simulations. Ultramicroscopy, 1999, 80, 19-39.	1.9	25
42	Structural characterisation of a VMgO catalyst used in the oxidative dehydrogenation of propane. Catalysis Letters, 1999, 57, 121-128.	2.6	42
43	Nanostructural Evolution under Reducing Conditions of a Pt/CeTbOxCatalyst:Â A New Alternative System as a TWC Component. Chemistry of Materials, 1999, 11, 3610-3619.	6.7	25
44	The interpretation of HREM images of supported metal catalysts using image simulation: profile view images. Ultramicroscopy, 1998, 72, 135-164.	1.9	154
45	Nanostructural Evolution of a Pt/CeO2Catalyst Reduced at Increasing Temperatures (473–1223 K): A HREM Study. Journal of Catalysis, 1997, 169, 510-515.	6.2	74
46	High-resolution electron microscopy investigation of metal–support interactions in Rh/TiO2. Journal of the Chemical Society, Faraday Transactions, 1996, 92, 2799-2809.	1.7	86