# Asuncion Fernandez

List of Publications by Year
in descending order



| 250 | 10,779 | 34076 52 | 43868 91 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 264 | 264 | 264 | 11924 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Permanent Magnetism, Magnetic Anisotropy, and Hysteresis of Thiol-Capped Gold Nanoparticles. Physical Review Letters, 2004, 93, 087204. | 2.9 | 513 |
| 2 | Preparation and characterization of TiO2 photocatalysts supported on various rigid supports (glass,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5<br><br>Applied Catalysis B: Environmental, 1995, 7, 49-63. | 10.8 | 475 |
| 3 | Characterization and photocatalytic activity in aqueous medium of TiO2 and Ag-TiO2 coatings on quartz. Applied Catalysis B: Environmental, 1997, 13, 219-228. | 10.8 | 415 |
| 4 | Gold Glyconanoparticles as Water-Soluble Polyvalent Models To Study Carbohydrate Interactions. Angewandte Chemie - International Edition, 2001, 40, 2257-2261. | 7.2 | 354 |
| 5 | The state of the oxygen at the surface of polycrystalline cobalt oxide. Journal of Electron Spectroscopy and Related Phenomena, 1995, 71, 61-71. | 0.8 | 319 |
| 6 | Gold Glyconanoparticles: Synthetic Polyvalent Ligands Mimicking Glycocalyx-Like Surfaces as Tools for Glycobiological Studies. Chemistry - A European Journal, 2003, 9, 1909-1921. | 1.7 | 241 |
| 7 | MgH with NbO as additive, for hydrogen storage: Chemical, structural and kinetic behavior with heating. Acta Materialia, 2006, 54, 105-110. | 3.8 | 240 |
| 8 | Spectroscopic characterization of quantum-sized TiO2 supported on silica: influence of size and TiO2-SiO2 interface composition. The Journal of Physical Chemistry, 1995, 99, 1484-1490. | 2.9 | 209 |
| 9 | Formation of Î³-Fe2O3Isolated Nanoparticles in a Silica Matrix. Langmuir, 1997, 13, 3627-3634. | 1.6 | 189 |
| 10 | Improvement in H-sorption kinetics of MgH powders by using Fe nanoparticles generated by reactive FeF addition. Scripta Materialia, 2005, 52, 719-724. | 2.6 | 174 |
| 11 | Ferromagnetism in fcc Twinned 2.4Ânm Size Pd Nanoparticles. Physical Review Letters, 2003, 91, 237203. | 2.9 | 172 |
| 12 | Nanoecotoxicity effects of engineered silver and gold nanoparticles in aquatic organisms. TrAC - Trends in Analytical Chemistry, 2012, 32, 40-59. | 5.8 | 167 |
| 13 | Influence of the microstructure on the mechanical and tribological behavior of TiC/a-C nanocomposite coatings. Thin Solid Films, 2009, 517, 1662-1671. | 0.8 | 152 |
| 14 | Bonding structure in amorphous carbon nitride: A spectroscopic and nuclear magnetic resonance study. Journal of Applied Physics, 2001, 90, 675-681. | 1.1 | 131 |
| 15 | Hydrogen sorption improvement of nanocrystalline MgH2 by Nb2O5 nanoparticles. Scripta Materialia, 2006, 54, 1293-1297. | 2.6 | 129 |
| 16 | Chemical and microstructural study of the oxygen passivation behaviour of nanocrystalline Mg and MgH2. Applied Surface Science, 2006, 252, 2334-2345. | 3.1 | 128 |
| 17 | Nb2O5 â€œPathway Effectâ€•on Hydrogen Sorption in Mg. Journal of Physical Chemistry B, 2006, 110, 7845-7850. | 1.2 | 111 |
| 18 | Spectroscopic characterization of Tio2/SiO2 catalysts. Journal of Catalysis, 1988, 112, 489-494. | 3.1 | 109 |

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| 19 | Encapsulation of Nickel Nanoparticles in Carbon Obtained by the Sonochemical Decomposition of Ni(C8H12)2. Chemistry of Materials, 1999, 11, 1331-1335. | 3.2 | 109 |
| 20 | Surface plasmon resonance of capped Au nanoparticles. Physical Review B, 2005, 72, . | 1.1 | 106 |
| 21 | Tribological behaviour of titanium carbide/amorphous carbon nanocomposite coatings: From macro to the micro-scale. Surface and Coatings Technology, 2008, 202, 4011-4018. | 2.2 | 99 |
| 22 | An XPS study of dispersion and chemical state of MoO3 on Al2O3-TiO2 binary oxide support. Applied Catalysis A: General, 2001, 213, 279-288. | 2.2 | 97 |
| 23 | Characterization of V2O5/TiO2â^'ZrO2Catalysts by XPS and Other Techniques. Journal of Physical Chemistry B, 1998, 102, 10176-10182. | 1.2 | 96 |
| 24 | Magnetron sputtering of Cr(Al)N coatings: Mechanical and tribological study. Surface and Coatings Technology, 2005, 200, 192-197. | 2.2 | 90 |
| 25 | Evidence of spin disorder at the surfaceâ€“core interface of oxygen passivated Fe nanoparticles. Journal of Applied Physics, 1998, 84, 2189-2192. | 1.1 | 86 |
| 26 | XPS study of the surface carbonation/hydroxylation state of metal oxides. Applied Surface Science, 1990, 45, 103-108. | 3.1 | 83 |
| 27 | Supported Co catalysts prepared as thin films by magnetron sputtering for sodium borohydride and ammonia borane hydrolysis. Applied Catalysis B: Environmental, 2014, 158-159, 400-409. | 10.8 | 82 |
| 28 | Structure and tribological properties of MoCN-Ag coatings in the temperature range of 25â€“700 Â°C. Applied Surface Science, 2013, 273, 408-414. | 3.1 | 80 |
| 29 | Behaviour of Au-citrate nanoparticles in seawater and accumulation in bivalves at environmentally relevant concentrations. Environmental Pollution, 2013, 174, 134-141. | 3.7 | 79 |
| 30 | Boron Compounds as Stabilizers of a Complex Microstructure in a Coâ€Bâ€based Catalyst for NaBH<sub>4</sub> Hydrolysis. ChemCatChem, 2011, 3, 1305-1313. | 1.8 | 78 |
| 31 | Metal carbide/amorphous C-based nanocomposite coatings for tribological applications. Surface and Coatings Technology, 2009, 204, 947-954. | 2.2 | 74 |
| 32 | Interpretation of the Binding Energy and Auger Parameter Shifts Found by XPS for TiO2Supported on Different Surfaces. The Journal of Physical Chemistry, 1996, 100, 16255-16262. | 2.9 | 72 |
| 33 | Giant magnetic anisotropy at the nanoscale: Overcoming the superparamagnetic limit. Physical Review B, 2006, 74, . | 1.1 | 71 |
| 34 | Comparative investigation of TiAlC(N), TiCrAlC(N), and CrAlC(N) coatings deposited by sputtering of ĐœĐĐ¥-phase Ti2â^'Cr AlC targets. Surface and Coatings Technology, 2009, 203, 3595-3609. | 2.2 | 71 |
| 35 | Microstructural study of the LiBH4â€“MgH2 reactive hydride composite with and without Ti-isopropoxide additive. Acta Materialia, 2010, 58, 5683-5694. | 3.8 | 71 |
| 36 | Endurance of TiAlSiN coatings: Effect of Si and bias on wear and adhesion. Wear, 2011, 270, 541-549. | 1.5 | 71 |

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| 37 | Oxidation and diffusion processes in nickel-titanium oxide systems. Surface Science, 1993, 295, 402-410. | 0.8 | 70 |
| 38 | Chemical changes induced by sputtering in TiO2 and some selected titanates as observed by X-ray absorption spectroscopy. Surface Science, 1993, 290, 427-435. | 0.8 | 68 |
| 39 | Gold Nanoparticles with Different Capping Systems:Â An Electronic and Structural XAS Analysis. Journal of Physical Chemistry B, 2005, 109, 8761-8766. | 1.2 | 68 |
| 40 | Oxidation State and Local Structure of Ti-Based Additives in the Reactive Hydride Composite 2LiBH<sub>4</sub> + MgH<sub>2</sub>. Journal of Physical Chemistry C, 2010, 114, 3309-3317. | 1.5 | 66 |
| 41 | Surface Characterization of Ga2O3â˜TiO2 and V2O5/Ga2O3â˜TiO2 Catalysts. Journal of Physical Chemistry B, 2001, 105, 6227-6235. | 1.2 | 65 |
| 42 | Investigation of a Pt containing washcoat on SiC foam for hydrogen combustion applications. Applied Catalysis B: Environmental, 2016, 180, 336-343. | 10.8 | 64 |
| 43 | 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. | 0.9 | 63 |
| 44 | Structural Characterization and Oxidative Dehydrogenation Activity of V2O5/CexZr1-xO2/SiO2Catalysts. Journal of Physical Chemistry B, 2006, 110, 9140-9147. | 1.2 | 63 |
| 45 | Magnetic and microstructural analysis of palladium nanoparticles with different capping systems. Physical Review B, 2006, 73, . | 1.1 | 63 |
| 46 | Surface-modified Pd and Au nanoparticles for anti-wear applications. Tribology International, 2011, 44, 720-726. | 3.0 | 61 |
| 47 | The electronic structure of mesoscopic NiO particles. Chemical Physics Letters, 1993, 208, 460-464. | 1.2 | 60 |
| 48 | Electronic structure of stoichiometric andAr+-bombardedZrO2determined by resonant photoemission. Physical Review B, 1995, 52, 11711-11720. | 1.1 | 60 |
| 49 | In Situ EXAFS Study of the Photocatalytic Reduction and Deposition of Gold on Colloidal Titania. The Journal of Physical Chemistry, 1995, 99, 3303-3309. | 2.9 | 59 |
| 50 | Morphological effects on the photocatalytic properties of SnO2 nanostructures. Journal of Alloys and Compounds, 2019, 810, 151718. | 2.8 | 57 |
| 51 | Ion beam induced chemical vapor deposition procedure for the preparation of oxide thin films. II. Preparation and characterization of AlxTiyOz thin films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1996, 14, 2842-2848. | 0.9 | 56 |
| 52 | Surface plasmon resonance and magnetism of thiol-capped gold nanoparticles. Nanotechnology, 2008, 19, 175701. | 1.3 | 55 |
| 53 | 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. | 1.2 | 53 |
| 54 | Electronic Semiconductor-Support Interactionâ€”A Novel Effect in Semiconductor Photocatalysis. Angewandte Chemie - International Edition, 2001, 40, 3825-3827. | 7.2 | 51 |

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| 55 | Surface-modified Pd nanoparticles as a superior additive for lubrication. Journal of Nanoparticle Research, 2007, 9, 639-645. | 0.8 | 51 |
| 56 | Dependence of exchange anisotropy and coercivity on the Feâ€“oxide structure in oxygen-passivated Fe nanoparticles. Journal of Applied Physics, 1999, 85, 6118-6120. | 1.1 | 50 |
| 57 | Doping and Alloying Effects on DLC Coatings. , 2008, , 311-338. | | 50 |
| 58 | Interface effects for metal oxide thin films deposited on another metal oxide I. SnO deposited on SiO2. Surface Science, 1996, 350, 123-135. | 0.8 | 49 |
| 59 | Characterisation of Co@Fe3O4 core@shell nanoparticles using advanced electron microscopy. Nanoscale, 2013, 5, 5765. | 2.8 | 49 |
| 60 | Towards Extending Solar Cell Lifetimes: Addition of a Fluorous Cation to Triple Cationâ€Based Perovskite Films. ChemSusChem, 2017, 10, 3846-3853. | 3.6 | 49 |
| 61 | Gold Glyconanoparticles as Building Blocks for Nanomaterials Design. Advanced Materials, 2002, 14, 585. | 11.1 | 48 |
| 62 | Gold and Goldâ^'Iron Oxide Magnetic Glyconanoparticles:Â Synthesis, Characterization and Magnetic Properties.. Journal of Physical Chemistry B, 2006, 110, 13021-13028. | 1.2 | 47 |
| 63 | An XPS study of the mixing effects induced by ion bombardment in composite oxides. Applied Surface Science, 1993, 68, 453-459. | 3.1 | 46 |
| 64 | Oxidation State and Size Effects in CoO Nanoparticles. Journal of Physical Chemistry B, 1999, 103, 6676-6679. | 1.2 | 46 |
| 65 | Structural and microtribological studies of Tiâ€“Câ€“N based nanocomposite coatings prepared by reactive sputtering. Thin Solid Films, 2005, 472, 64-70. | 0.8 | 45 |
| 66 | Bifunctional, Monodisperse BiPO4-Based Nanostars: Photocatalytic Activity and Luminescent Applications. Crystal Growth and Design, 2014, 14, 3319-3326. | 1.4 | 45 |
| 67 | Hydrogen production through sodium borohydride ethanolysis. International Journal of Hydrogen Energy, 2015, 40, 5326-5332. | 3.8 | 45 |
| 68 | Spectroscopic characterisation and photochemical behaviour of a titanium hydroxyperoxo compound. Journal of the Chemical Society Faraday Transactions I, 1989, 85, 1279. | 1.0 | 44 |
| 69 | Titania-supported bimetallic catalyst synthesis by photocatalytic codeposition at ambient temperature: Preparation and characterization of Pt$z.sbnd;Rh, Ag$z.sbnd;Rh, and Pt$z.sbnd;Pd couples. Journal of Catalysis, 1991, 132, 490-497. | 3.1 | 44 |
| 70 | Passivation of nanocrystalline Al prepared by the gas phase condensation method: An x-ray photoelectron spectroscopy study. Journal of Materials Research, 1998, 13, 703-710. | 1.2 | 43 |
| 71 | Size and support effects in the photoelectron spectra of small TiO2 particles. Surface and Interface Analysis, 1992, 18, 392-396. | 0.8 | 42 |
| 72 | XPS and ISS study of NiTiO3and PbTiO3subjected to low-energy ion bombardment. I. Influence of the type of ion (Ar+and Oâ€‰2+). Surface and Interface Analysis, 1993, 20, 941-948. | 0.8 | 42 |

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| 73 | SnO2 thin films prepared by ion beam induced CVD: preparation and characterization by X-ray absorption spectroscopy. Thin Solid Films, 1999, 353, 113-123. | 0.8 | 42 |
| 74 | Ion beam induced chemical vapor deposition for the preparation of thin film oxides. Thin Solid Films, 1994, 241, 198-201. | 0.8 | 41 |
| 75 | Characterization of carbon nitride thin films prepared by dual ion beam sputtering. Applied Physics Letters, 1996, 69, 764-766. | 1.5 | 41 |
| 76 | Characterization of MoO3/TiO2â€“ZrO2 catalysts by XPS and other techniques. Journal of Molecular Catalysis A, 2000, 162, 431-441. | 4.8 | 41 |
| 77 | The melting behavior of passivated nanocrystalline aluminum. Scripta Materialia, 1996, 7, 813-822. | 0.5 | 40 |
| 78 | TEM, EELS and EFTEM characterization of nickel nanoparticles encapsulated in carbon. Journal of Materials Chemistry, 2000, 10, 715-721. | 6.7 | 40 |
| 79 | New insights into the synergistic effect in bimetallic-boron catalysts for hydrogen generation: The Coâ€“Ruâ€“B system as a case study. Applied Catalysis B: Environmental, 2012, 128, 39-47. | 10.8 | 40 |
| 80 | Study of the thermal stability of carbon nitride thin films prepared by reactive magnetron sputtering. Diamond and Related Materials, 2000, 9, 212-218. | 1.8 | 39 |
| 81 | Comparative investigation of Al- and Cr-doped TiSiCN coatings. Surface and Coatings Technology, 2011, 205, 4640-4648. | 2.2 | 39 |
| 82 | On the formation of the porous structure in nanostructured a-Si coatings deposited by dc magnetron sputtering at oblique angles. Nanotechnology, 2014, 25, 355705. | 1.3 | 39 |
| 83 | Structural characterization of partially amorphous SnO2 nanoparticles by factor analysis of XAS and FT-IR spectra. Solid State Ionics, 1999, 116, 117-127. | 1.3 | 38 |
| 84 | Electronic structure, magnetic properties, and microstructural analysis of thiol-functionalized Au nanoparticles: role of chemical and structural parameters in the ferromagnetic behaviour. Journal of Nanoparticle Research, 2008, 10, 179-192. | 0.8 | 38 |
| 85 | Deactivation, reactivation and memory effect on Coâ€“B catalyst for sodium borohydride hydrolysis operating in high conversion conditions. International Journal of Hydrogen Energy, 2012, 37, 14373-14381. | 3.8 | 38 |
| 86 | 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. | 1.2 | 37 |
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| 88 | The role of cobalt hydroxide in deactivation of thin film Co-based catalysts for sodium borohydride hydrolysis. Applied Catalysis B: Environmental, 2017, 210, 342-351. | 10.8 | 37 |
| 89 | In Situ Energy-Dispersive XAS and XRD Study of the Superior Hydrogen Storage System MgH2/Nb2O5. Journal of Physical Chemistry C, 2007, 111, 10700-10706. | 1.5 | 35 |
| 90 | Ion beam induced chemical vapor deposition procedure for the preparation of oxide thin films. I. Preparation and characterization of TiO2 thin films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1994, 12, 2728-2732. | 0.9 | 34 |

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| 91 | Synthesis of SnO and SnO2 nanocrystalline powders by the gas phase condensation method. Sensors and Actuators B: Chemical, 1996, 31, 29-32. | 4.0 | 34 |
| 92 | Adsorption and oxidation of K deposited on graphite. Surface Science, 1996, 364, 253-265. | 0.8 | 33 |
| 93 | Tailored synthesis of TiCâ^•a-C nanocomposite tribological coatings. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2005, 23, 1732-1736. | 0.9 | 33 |
| 94 | X-ray Photoelectron Spectroscopy Study of V2O5Dispersion on a Nanosized Al2O3-TiO2Mixed Oxide. Langmuir, 2001, 17, 1132-1137. | 1.6 | 32 |
| 95 | Catalytic growth of carbon nanotubes on stainless steel: Characterization and frictional properties. Diamond and Related Materials, 2008, 17, 1853-1857. | 1.8 | 31 |
| 96 | Mechanism of hydrogen gas-sensing at low temperatures using Rh/TiO2 systems. Sensors and Actuators, 1989, 18, 337-348. | 1.8 | 30 |
| 97 | Preparation, microstructural characterisation and tribological behaviour of CN coatings. Surface and Coatings Technology, 2003, 163-164, 527-534. | 2.2 | 30 |
| 98 | Synchrotron Photoemission Characterization of TiO2Supported on SiO2. Langmuir, 1998, 14, 4908-4914. | 1.6 | 29 |
| 99 | The preparation of metalâ€“polymer composite materials using ultrasound radiation: Part II. Differences in physical properties of cobaltâ€“polymer and ironâ€“polymer composites. Journal of Materials Research, 1999, 14, 3913-3920. | 1.2 | 29 |
| 100 | STEMâ€“EELS analysis reveals stable high-density He in nanopores of amorphous silicon coatings deposited by magnetron sputtering. Nanotechnology, 2015, 26, 075703. | 1.3 | 29 |
| 101 | Structural aspects of the interaction of methyl thiol and dimethyldisulphide with Ni(111). Journal of Physics Condensed Matter, 1995, 7, 7781-7796. | 0.7 | 28 |
| 102 | Chemical Analysis of Ternary Ti Oxides using Soft X-ray Absorption Spectroscopy. Surface and Interface Analysis, 1997, 25, 804-808. | 0.8 | 28 |
| 103 | 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. | 2.8 | 28 |
| 104 | A comparative study of the role of additive in the MgH2 vs. the LiBH4â€“MgH2 hydrogen storage system. International Journal of Hydrogen Energy, 2011, 36, 3932-3940. | 3.8 | 28 |
| 105 | A new bottom-up methodology to produce silicon layers with a closed porosity nanostructure and reduced refractive index. Nanotechnology, 2013, 24, 275604. | 1.3 | 28 |
| 106 | Pt-impregnated catalysts on powdery SiC and other commercial supports for the combustion of hydrogen under oxidant conditions. Applied Catalysis B: Environmental, 2017, 201, 391-399. | 10.8 | 28 |
| 107 | Nanoporous Pt-based catalysts prepared by chemical dealloying of magnetron-sputtered Pt-Cu thin films for the catalytic combustion of hydrogen. Applied Catalysis B: Environmental, 2018, 235, 168-176. | 10.8 | 28 |
| 108 | Ion-Beam-Induced CVD: An Alternative Method of Thin Film Preparation. Chemical Vapor Deposition, 1997, 3, 219-226. | 1.4 | 27 |

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| 109 | Characterisation of passivated aluminium nanopowders: An XPS and TEM/EELS study. Journal of the European Ceramic Society, 1998, 18, 1195-1200. | 2.8 | 27 |
| 110 | Tribochemical effects on CNx films. Surface and Coatings Technology, 2000, 133-134, 430-436. | 2.2 | 27 |
| 111 | Bonding and morphology study of carbon nitride films obtained by dual ion beam sputtering. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2000, 18, 515-523. | 0.9 | 26 |
| 112 | Characterisation and magnetic behaviour of nickel nanoparticles encapsulated in carbon. Acta Materialia, 2004, 52, 2165-2171. | 3.8 | 26 |
| 113 | Characterization of nanostructured Tiâ€“Bâ€“(N) coatings produced by direct current magnetron sputtering. Thin Solid Films, 2007, 515, 3590-3596. | 0.8 | 26 |
| 114 | Photophysikalische und photochemische Eigenschaften von Metalldithiolenen. Chemische Berichte, 1984, 117, 3102-3111. | 0.2 | 25 |
| 115 | Mixing effects in CeO2/TiO2 and CeO2/SiO2 systems submitted to Ar+ sputtering. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1993, 11, 58-65. | 0.9 | 25 |
| 116 | Thermal and photochemical methods for the preparation of thin films of cermet materials. Journal of Materials Science, 1996, 31, 2325-2332. | 1.7 | 25 |
| 117 | The role of CN chemical bonding on the tribological behaviour of CNx coatings. Surface and Coatings Technology, 1999, 120-121, 594-600. | 2.2 | 25 |
| 118 | The use of X-ray photoelectron spectroscopy to characterize fine AlN powders submitted to mechanical attrition. Scripta Materialia, 1999, 11, 249-257. | 0.5 | 25 |
| 119 | Tribological behaviour and chemical characterisation of Si-free and Si-containing carbon nitride coatings. Diamond and Related Materials, 2002, 11, 169-175. | 1.8 | 25 |
| 120 | Combined x-ray photoelectron spectroscopy and scanning electron microscopy studies of the LiBH4â€“MgH2 reactive hydride composite with and without a Ti-based additive. Journal of Applied Physics, 2011, 109, . | 1.1 | 25 |
| 121 | Characterization of oxygen passivated iron nanoparticles and thermal evolution to Î³-Fe2O3. Journal of Materials Science, 2004, 39, 4877-4885. | 1.7 | 24 |
| 122 | Optimized hydrogen generation in a semicontinuous sodium borohydride hydrolysis reactor for a 60W-scale fuel cell stack. Journal of Power Sources, 2011, 196, 4388-4395. | 4.0 | 24 |
| 123 | STEM-in-SEM high resolution imaging of gold nanoparticles and bivalve tissues in bioaccumulation experiments. Analyst, The, 2015, 140, 3082-3089. | 1.7 | 24 |
| 124 | Tailor-made preparation of Coâ€“C, Coâ€“B, and Co catalytic thin films using magnetron sputtering: insights into structureâ€“composition and activation effects for catalyzed NaBH<sub>4</sub> hydrolysis. RSC Advances, 2016, 6, 108611-108620. | 1.7 | 24 |
| 125 | The growth of thin Ti and TiOx films on Pt(111): Morphology and oxidation states. Surface Science, 1992, 273, 31-39. | 0.8 | 23 |
| 126 | The gas-phase condensation method for the preparation of quantum-sized ZnS nanoparticles. Thin Solid Films, 1998, 317, 497-499. | 0.8 | 23 |

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| 127 | Resonant photoemission characterization of SnO. Physical Review B, 1999, 60, 11171-11179. | 1.1 | 23 |
| 128 | Evolution of the microstructure, chemical composition and magnetic behaviour during the synthesis of alkanethiol-capped gold nanoparticles. Acta Materialia, 2007, 55, 1723-1730. | 3.8 | 23 |
| 129 | Comparative performance of nanocomposite coatings of TiC or TiN dispersed in a-C matrixes. Surface and Coatings Technology, 2008, 203, 756-760. | 2.2 | 23 |
| 130 | SiOxNy thin films with variable refraction index: Microstructural, chemical and mechanical properties. Applied Surface Science, 2010, 256, 4548-4553. | 3.1 | 23 |
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| 132 | Contribution of the xâ€ray absorption spectroscopy to study TiO2thin films prepared by ion beam induced chemical vapor deposition. Journal of Applied Physics, 1995, 77, 591-597. | 1.1 | 22 |
| 133 | Substrate Effects and Chemical State Plots for the XPS Analysis of Supported TiO2 Catalysts. Surface and Interface Analysis, 1997, 25, 292-294. | 0.8 | 22 |
| 134 | Preparation, characterization and thermal evolution of oxygen passivated nanocrystalline cobalt. Journal of Materials Chemistry, 1999, 9, 1011-1017. | 6.7 | 22 |
| 135 | Room temperature permanent magnetism in thiol-capped Pd-rich nanoparticles. Nanotechnology, 2006, 17, 1449-1453. | 1.3 | 22 |
| 136 | Characterization of Ti1â^'xAlxN coatings with selective IR reflectivity. Solar Energy, 2010, 84, 1397-1401. | 2.9 | 22 |
| 137 | Depth profiling of catalyst samples: An XPS-based model for the sputtering behavior of powder materials. Journal of Catalysis, 1991, 130, 627-641. | 3.1 | 21 |
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| 139 | Electronic structure of insulatingZr3N4studied by resonant photoemission. Physical Review B, 1995, 51, 17984-17987. | 1.1 | 21 |
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| 141 | Role of hydrogen in the mobility of phases in Ni$z.sbnd;TiOx systems. Journal of Catalysis, 1991, 131, 51-59. | 3.1 | 20 |
| 142 | Photoelectron spectroscopy of metal oxide particles: size and support effects. Vacuum, 1994, 45, 1085-1086. | 1.6 | 20 |
| 143 | Oxygen gas sensing behavior of nanocrystalline tin oxide prepared by the gas phase condensation method. Scripta Materialia, 1997, 8, 675-686. | 0.5 | 20 |
| 144 | Transmission Electron Microscopy and Energy-Dispersive X-ray Spectroscopy Study of V2O5/TiO2â^'ZrO2Catalyst. Langmuir, 2000, 16, 4217-4221. | 1.6 | 20 |

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| 145 | Depth profiling of industrial surface treatments by rf and dc glow discharge spectrometry. Applied Surface Science, 2004, 235, 97-102. | 3.1 | 20 |
| 146 | Study of Cobalt-Filled Carbon Nanoflasks. Journal of Physical Chemistry B, 2001, 105, 7606-7611. | 1.2 | 19 |
| 147 | Successive ion implantation of high doses of carbon and nitrogen on steels. Surface and Coatings Technology, 2002, 158-159, 630-635. | 2.2 | 19 |
| 148 | Tribological carbon-based coatings: An AFM and LFM study. Surface Science, 2009, 603, 973-979. | 0.8 | 19 |
| 149 | Exploring the benefits of depositing hard TiN thin films by non-reactive magnetron sputtering. Applied Surface Science, 2013, 275, 121-126. | 3.1 | 19 |
| 150 | Structural characterization of PbTiO3 thin films prepared by ion beam induced CVD and evaporation of lead. Thin Solid Films, 1996, 272, 99-106. | 0.8 | 17 |
| 151 | Preparation of Al2O3 thin films by ion-beam-induced CVD: structural effects of the bombardment with accelerated ions. Surface and Coatings Technology, 1996, 80, 23-26. | 2.2 | 17 |
| 152 | Influence of particle size on electrochemical and gas-phase hydrogen storage in nanocrystalline Mg. Journal of Alloys and Compounds, 2008, 463, 539-545. | 2.8 | 17 |
| 153 | Electronic interaction of Ni particles with TiO2 and SiO2. Surface Science, 1991, 251-252, 1012-1017. | 0.8 | 16 |
| 154 | â€œIn situâ€•XPS study of the photoassisted reduction of noble-metal cations on TiO2. Applied Surface Science, 1993, 69, 285-289. | 3.1 | 16 |
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