# Gian Andrea Rizzi

List of Publications by Year
in descending order



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|---|---|---|---|
| 102 papers | 2,774 citations | 172457 29 h-index | 197818 49 g-index |
| 102 all docs | 102 docs citations | 102 times ranked | 3835 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Nitrogen and sulfur doped mesoporous carbon as metal-free electrocatalysts for the in situ production of hydrogen peroxide. Carbon, 2015, 95, 949-963. | 10.3 | 252 |
| 2 | Ultrathin TiOxFilms on Pt(111):Â A LEED, XPS, and STM Investigation. Journal of Physical Chemistry B, 2005, 109, 24411-24426. | 2.6 | 160 |
| 3 | PECVD of amorphous TiO2 thin films: effect of growth temperature and plasma gas composition. Thin Solid Films, 2000, 371, 126-131. | 1.8 | 142 |
| 4 | Synthesis of Gold Nanoparticles by Laser Ablation in Toluene:â€‰ Quenching and Recovery of the Surface Plasmon Absorption. Journal of Physical Chemistry B, 2005, 109, 23125-23128. | 2.6 | 122 |
| 5 | Molecular oxygen interaction with Bi2O3: a spectroscopic and spectromagnetic investigation. Physical Chemistry Chemical Physics, 2001, 3, 1743-1749. | 2.8 | 88 |
| 6 | Density Functional Theory (DFT) and Experimental Evidences of Metalâ€“Support Interaction in Platinum Nanoparticles Supported on Nitrogen- and Sulfur-Doped Mesoporous Carbons: Synthesis, Activity, and Stability. ACS Catalysis, 2018, 8, 1122-1137. | 11.2 | 83 |
| 7 | Pure and mixed phase Bi2O3 thin films obtained by metal organic chemical vapor deposition. Chemical Vapor Deposition, 1996, 2, 238-242. | 1.3 | 81 |
| 8 | Highly Oriented V2O5Nanocrystalline Thin Films by Plasma-Enhanced Chemical Vapor Deposition. Chemistry of Materials, 2000, 12, 98-103. | 6.7 | 67 |
| 9 | Structure of Reduced Ultrathin TiO<sub><i>x</i></sub> Polar Films on Pt(111). Journal of Physical Chemistry C, 2009, 113, 5721-5729. | 3.1 | 64 |
| 10 | Vanadyl Precursors Used to Modify the Properties of Vanadium Oxide Thin Films Obtained by Chemical Vapor Deposition. Journal of the Electrochemical Society, 1999, 146, 551-558. | 2.9 | 63 |
| 11 | One step forward to a scalable synthesis of platinumâ€“yttrium alloy nanoparticles on mesoporous carbon for the oxygen reduction reaction. Journal of Materials Chemistry A, 2016, 4, 12232-12240. | 10.3 | 59 |
| 12 | Ab Initioand Experimental Studies on the Structure and Relative Stability of thecis-Hydrideâˆ'Î·2-Dihydrogen Complexes [{P(CH2CH2PPh2)3}M(H)(Î·2-H2)]+(M = Fe, Ru). Inorganic Chemistry, 1997, 36, 1061-1069. | 4.0 | 57 |
| 13 | Core and Valence Band Photoemission Spectroscopy of Well-Ordered Ultrathin TiOxFilms on Pt(111). Journal of Physical Chemistry C, 2007, 111, 869-876. | 3.1 | 56 |
| 14 | Chemical and Electrochemical Stability of Nitrogen and Sulphur Doped Mesoporous Carbons. Electrochimica Acta, 2016, 197, 251-262. | 5.2 | 53 |
| 15 | Low-temperature fabrication of SiC/geopolymer cellular composites. Composites Part B: Engineering, 2018, 137, 23-30. | 12.0 | 49 |
| 16 | Polyvinyl alcohol electrospun nanofibers containing Ag nanoparticles used as sensors for the detection of biogenic amines. Nanotechnology, 2015, 26, 075501. | 2.6 | 45 |
| 17 | Probing the correlation between Pt-support interaction and oxygen reduction reaction activity in mesoporous carbon materials modified with Pt-N active sites. Electrochimica Acta, 2018, 277, 287-300. | 5.2 | 45 |
| 18 | Silver Nanoparticle Arrays on a DVD-Derived Template: An easy&cheap SERS Substrate. Plasmonics, 2011, 6, 725-733. | 3.4 | 41 |

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|---|---|---|---|
| 19 | An angle-scanned photoelectron diffraction study on the surface relaxation of ZnO (0001). Surface Science, 1994, 319, 149-156. | 1.9 | 38 |
| 20 | Interfacial Morphology Addresses Performance of Perovskite Solar Cells Based on Composite Hole Transporting Materials of Functionalized Reduced Graphene Oxide and P3HT. Solar Rrl, 2018, 2, 1800013. | 5.8 | 36 |
| 21 | Platinum-free electrocatalysts for oxygen reduction reaction: Fe-Nx modified mesoporous carbon prepared from biosources. Journal of Power Sources, 2018, 402, 434-446. | 7.8 | 36 |
| 22 | Thin Films of Bismuth Vanadates with Modifiable Conduction Properties. Chemistry of Materials, 1999, 11, 255-261. | 6.7 | 35 |
| 23 | MgCl2/TiCl4/AlEt3 catalytic system for olefin polymerisation: a XPS study. Journal of Molecular Catalysis A, 2002, 178, 115-123. | 4.8 | 35 |
| 24 | Epitaxial growth of MnO nanoparticles on Pt(111) by reactive deposition of Mn2(CO)10. Surface Science, 2000, 462, 187-194. | 1.9 | 33 |
| 25 | Surface carboxylate species on Cu(100) studied by angle-scanned photoelectron diffraction and LCAO-LDF calculations. Surface Science, 1994, 315, 309-322. | 1.9 | 32 |
| 26 | Growth of NiO ultrathin films on Pd(100) by post-oxidation of Ni films: the effect of pre-adsorbed oxygen. Surface Science, 2003, 537, 36-54. | 1.9 | 32 |
| 27 | Stability of TiO<sub>2</sub> Polymorphs: Exploring the Extreme Frontier of the Nanoscale. ChemPhysChem, 2010, 11, 1550-1557. | 2.1 | 31 |
| 28 | Structure of highly strained ultrathin Ni films on Pd(). Surface Science, 2003, 522, 1-7. | 1.9 | 29 |
| 29 | Silver Nanoprism Arrays Coupled to Functional Hybrid Films for Localized Surface Plasmon Resonance-Based Detection of Aromatic Hydrocarbons. ACS Applied Materials & Interfaces, 2014, 6, 7773-7781. | 8.0 | 29 |
| 30 | Highly Efficient MoS<sub>2</sub>/Ag<sub>2</sub>S/Ag Photoelectrocatalyst Obtained from a Recycled DVD Surface. ACS Sustainable Chemistry and Engineering, 2018, 6, 7818-7825. | 6.7 | 29 |
| 31 | Mesoporous Carbon with Different Density of Thiophenicâ€Like Functional Groups and Their Effect on Oxygen Reduction. ChemSusChem, 2019, 12, 4229-4239. | 6.8 | 29 |
| 32 | A Ru(II) Î·3-Allylic Complex as a Novel Precursor for the CVD of Ru- and RuO2-Nanostructured Thin Films. Langmuir, 1999, 15, 4537-4543. | 3.5 | 28 |
| 33 | UV photoelectron spectra and DV-X.alpha. calculations on diatomic rhodium formamidinate complexes. Inorganic Chemistry, 1987, 26, 3406-3409. | 4.0 | 27 |
| 34 | Ru3(CO)12Adsorption and Decomposition on TiO2. Langmuir, 2002, 18, 698-705. | 3.5 | 26 |
| 35 | The mechanism of concentric HfO2/Co3O4/TiO2 nanotubes investigated by intensity modulated photocurrent spectroscopy (IMPS) and electrochemical impedance spectroscopy (EIS) for photoelectrochemical activity. Nano Energy, 2019, 65, 104020. | 16.0 | 26 |
| 36 | Mobility of Au on TiO<i><sub>x</sub></i> Substrates with Different Stoichiometry and Defectivity. Journal of Physical Chemistry C, 2008, 112, 3187-3190. | 3.1 | 25 |

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| 37 | Searching for the Formation of Tiâ€“B Bonds in B-Doped TiO<sub>2</sub>â€“Rutile. Journal of Physical Chemistry C, 2013, 117, 13163-13172. | 3.1 | 25 |
| 38 | Climbing the oxygen reduction reaction volcano plot with laser ablation synthesis of Pt<sub>x</sub>Y nanoalloys. Catalysis Science and Technology, 2020, 10, 4503-4508. | 4.1 | 25 |
| 39 | PEOâ€bâ€PS Block Copolymer Templated Mesoporous Carbons: A Comparative Study of Nitrogen and Sulfur Doping in the Oxygen Reduction Reaction to Hydrogen Peroxide. Chemistry - A European Journal, 2021, 27, 1002-1014. | 3.3 | 24 |
| 40 | A chemical vapour deposition route to MoO3â€“Bi2O3 thin films. Thin Solid Films, 1998, 333, 35-40. | 1.8 | 23 |
| 41 | Xylene sensing properties of aryl-bridged polysilsesquioxane thin films coupled to gold nanoparticles. Journal of Materials Chemistry C, 2013, 1, 4252. | 5.5 | 23 |
| 42 | Nitrogen and Sulfur Doped Mesoporous Carbons, Prepared from Templating Silica, as Interesting Material for Supercapacitors. ChemistrySelect, 2017, 2, 7082-7090. | 1.5 | 23 |
| 43 | Visible Light Driven Photoanodes for Water Oxidation Based on Novel r-GO/Î²-Cu2V2O7/TiO2 Nanorods Composites. Nanomaterials, 2018, 8, 544. | 4.1 | 23 |
| 44 | Facile synthesis of Pd3Y alloy nanoparticles for electrocatalysis of the oxygen reduction reaction. Electrochimica Acta, 2019, 320, 134563. | 5.2 | 23 |
| 45 | Substitutional Ti(1-x)RuxO2 surface alloys obtained from the decomposition of Ru3(CO)12 on TiO2(110). Physical Chemistry Chemical Physics, 1999, 1, 709-711. | 2.8 | 22 |
| 46 | Epitaxial TiO2 nanoparticles on Pt(111): a structural study by photoelectron diffraction and scanning tunneling microscopy. Physical Chemistry Chemical Physics, 2005, 7, 697. | 2.8 | 22 |
| 47 | Preparation of epitaxial ultrathin RuO2â€“TiO2(110) films by decomposition of Ru3(CO)12. Surface Science, 1999, 443, 277-286. | 1.9 | 21 |
| 48 | Comparison between the Oxygen Reduction Reaction Activity of Pd<sub>5</sub>Ce and Pt<sub>5</sub>Ce: The Importance of Crystal Structure. ACS Catalysis, 2015, 5, 6032-6040. | 11.2 | 21 |
| 49 | Experimental and theoretical evidence for substitutional molybdenum atoms in theTiO2(110)subsurface. Physical Review B, 2006, 73, . | 3.2 | 20 |
| 50 | Growth and optical properties of silver nanostructures obtained on connected anodic aluminum oxide templates. Nanotechnology, 2012, 23, 325604. | 2.6 | 19 |
| 51 | Au nanoparticles on a templating TiOx/Pt(111) ultrathin polar film: a photoemission and photoelectron diffraction study. Physical Chemistry Chemical Physics, 2009, 11, 2177. | 2.8 | 17 |
| 52 | Copper Vanadate Nanobelts as Anodes for Photoelectrochemical Water Splitting: Influence of CoO<i><sub>x</sub></i> Overlayers on Functional Performances. ACS Applied Materials & Interfaces, 2020, 12, 31448-31458. | 8.0 | 17 |
| 53 | Water Adsorption on Different TiO<sub>2</sub> Polymorphs Grown as Ultrathin Films on Pt(111). Journal of Physical Chemistry C, 2012, 116, 12532-12540. | 3.1 | 16 |
| 54 | A synchrotron-based spectroscopic study of the electronic structure of N-doped HOPG and PdY/N-doped HOPG. Surface Science, 2016, 646, 132-139. | 1.9 | 16 |

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| 55 | Monolayer doping of germanium by phosphorus-containing molecules. Nanotechnology, 2018, 29, 465702. | 2.6 | 14 |
| 56 | A photoelectron diffraction study of the surface-V2O3 (2Ã—2) layer on Pd(111). Surface Science, 2003, 529, L234-L238. | 1.9 | 13 |
| 57 | Cu2O/TiO2 heterostructures on a DVD as easy&cheap photoelectrochemical sensors. Thin Solid Films, 2016, 603, 193-201. | 1.8 | 13 |
| 58 | Self-limiting Sb monolayer as a diffusion source for Ge doping. Applied Surface Science, 2019, 496, 143713. | 6.1 | 13 |
| 59 | Epitaxial growth of molybdenum on TiO2(110). Surface Science, 2003, 544, 135-146. | 1.9 | 12 |
| 60 | Plasmaâ€Assisted Synthesis of Co<sub>3</sub>O<sub>4</sub>â€Based Electrocatalysts on Ni Foam Substrates for the Oxygen Evolution Reaction. Advanced Materials Interfaces, 2021, 8, 2100763. | 3.7 | 12 |
| 61 | Azimuthal orientation of formate and acetate on Cu(100) studied by angle-scanned photoelectron diffraction. Surface Science, 1993, 291, L756-L758. | 1.9 | 11 |
| 62 | VO<sub>2</sub>/V<sub>2</sub>O<sub>5</sub>:Ag Nanostructures on a DVD as Photoelectrochemical Sensors. ChemPlusChem, 2016, 81, 391-398. | 2.8 | 11 |
| 63 | Ag-Vanadates/GO Nanocomposites by Aerosol-Assisted Spray Pyrolysis: Preparation and Structural and Electrochemical Characterization of a Versatile Material. ACS Omega, 2017, 2, 2792-2802. | 3.5 | 11 |
| 64 | Ultrathin film growth and spectroscopic characterization of VOx (0.8â©½xâ©½1.3) on Pt(111). Surface Science, 2001, 490, 376-384. | 1.9 | 10 |
| 65 | Role of citrate in the formation of enamel-like calcium phosphate oriented nanorod arrays. CrystEngComm, 2019, 21, 4684-4689. | 2.6 | 10 |
| 66 | Co3O4 Nanopetals on Si as Photoanodes for the Oxidation of Organics. Surfaces, 2019, 2, 41-53. | 2.3 | 10 |
| 67 | MoO3 thin films prepared via MOCVD from a volatile molybdenyl complex. Journal of Materials Chemistry, 1995, 5, 1147. | 6.7 | 9 |
| 68 | Spectroscopic and structural characterisation of a VOx (xâ‰ˆ1) ultrathin epitaxial film on Pt (111). Thin Solid Films, 2001, 400, 154-159. | 1.8 | 9 |
| 69 | Epitaxial MoOx nanostructures on TiO2(110) obtained using thermal decomposition of Mo(CO)6. Surface Science, 2006, 600, 3345-3351. | 1.9 | 9 |
| 70 | Cation site environment in ultrathin TiOx films grown on Pt(111) probed by X-ray absorption spectroscopy at the Ti 2p edge. Surface Science, 2010, 604, 366-371. | 1.9 | 9 |
| 71 | Reactivity of Fe Nanoparticles on TiOx/Pt(111): A Complete Surface Science Investigation. Journal of Physical Chemistry C, 2011, 115, 15812-15821. | 3.1 | 9 |
| 72 | X-Ray photoelectron and MÃ¶ssbauer spectroscopies of a binary iron phosphate glass. Journal of Materials Chemistry, 1991, 1, 805-808. | 6.7 | 8 |

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| 73 | Angle-scanned photoelectron diffraction chemisorption study of c( 2 Ã— 2)-O on Ni( 1 ML)/Cu( 100). Surface Science, 1994, 321, L214-L218. | 1.9 | 8 |
| 74 | Probing Transformations of Relevance in Catalysis on a Single Oxide Layer: Fe on TiO<sub><i>x</i></sub>/Pt(111). Journal of Physical Chemistry Letters, 2010, 1, 1660-1665. | 4.6 | 8 |
| 75 | Structure and thermal stability of fully oxidized TiO2/Pt(111) polymorphs. Surface Science, 2013, 608, 173-179. | 1.9 | 8 |
| 76 | Nitrogenâ€Doped Mesoporous Carbon Electrodes Prepared from Templating Propylamineâ€Functionalized Silica. ChemElectroChem, 2020, 7, 1914-1921. | 3.4 | 8 |
| 77 | UV-PE spectra and DV-X.alpha. calculations of some phosphido-bridged dimers. Organometallics, 1987, 6, 2536-2545. | 2.3 | 7 |
| 78 | Structural studies of epitaxial ultrathin oxide films and nanoclusters by means of angle-scanned photoelectron diffraction (XPD). Journal of Physics Condensed Matter, 2002, 14, 4101-4117. | 1.8 | 7 |
| 79 | Experimental and theoretical investigation of the electronic structure of two isoelectronic binuclear clusters. UV-PES and DV-X.alpha. study of ruthenium ethanediyldiamido carbonyl, Ru2(CO)6[.mu.,.mu.'-N(R)CH2CH2N(R)], and iron ruthenium ethanediyldiamido carbonyl, FeRu(CO)6[.mu.,.mu.'-N(R)CH2CH2N(R)]. Inorganic Chemistry, 1991, 30, 1906-1911. | 4.0 | 6 |
| 80 | Tracking thermally-activated transformations in a nanostructured metal/oxide/metal system. Physical Chemistry Chemical Physics, 2011, 13, 17171. | 2.8 | 6 |
| 81 | Diffusion-driven formation of Co<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e256" altimg="si64.svg"><mml:msub><mml:mrow /><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e264" altimg="si65.svg"><mml:msub><mml:mrow /><mml:mrow><mml:mn>4</mml:mn></mml:mrow></mml:msub></mml:math>Ânanopetals layers for [illegible] | 6.1 | 6 |
| 82 | Electronic structure of Ru3(CO)6(CH3Cî—»CHCH = NC3H7-i)2 as indicated by UV-photoelectron spectroscopy and DV-XÎ± quantum mechanical calculations. Journal of Organometallic Chemistry, 1990, 396, 73-81. | 1.8 | 5 |
| 83 | Polarity determination of the HgCdTe(111) surface by azimuthal X-ray photoelectron diffraction experiments. Physica Scripta, 1990, 41, 913-918. | 2.5 | 4 |
| 84 | Angle-scanned photoelectron diffraction chemisorption studies using heteroatomic surface monolayers. Surface Science, 1995, 331-333, 35-41. | 1.9 | 4 |
| 85 | Vanadium Pentoxide Thin Films by XPS. Surface Science Spectra, 1999, 6, 168-176. | 1.3 | 4 |
| 86 | Pentamethylcyclopentadienyl complexes of ruthenium(II) containing chiral diphosphines: reactivity towards BF3. Inorganica Chimica Acta, 2000, 299, 142-146. | 2.4 | 4 |
| 87 | Scanning tunneling microscopy and spectroscopy of Mo clusters grown on TiO2(110). Surface Science, 2007, 601, 3881-3885. | 1.9 | 4 |
| 88 | Green synthesis and electrophoretic deposition of Ag nanoparticles on SiO2/Si(100). Nanotechnology, 2013, 24, 345501. | 2.6 | 4 |
| 89 | Zr<sub>2</sub>O<sub>3</sub> Nanostripes on TiO<sub>2</sub>(110) Prepared by UHV Chemical Vapor Deposition. Journal of Physical Chemistry C, 2014, 118, 8026-8033. | 3.1 | 4 |
| 90 | X-ray photoelectron diffraction from the CdTe(111)A polar surface. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1993, 16, 155-159. | 3.5 | 3 |

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| 91 | A DVD-MoS2/Ag2S/Ag Nanocomposite Thiol-Conjugated with Porphyrins for an Enhanced Light-Mediated Hydrogen Evolution Reaction. Nanomaterials, 2020, 10, 1266. | 4.1 | 3 |
| 92 | Phosphorus precursors reactivity versus hydrogenated Ge surface: towards a reliable self-limited monolayer doping. Applied Surface Science, 2021, 541, 148532. | 6.1 | 3 |
| 93 | Suppressed charge carrier trap states and double photon absorption in substitutional Ta-doped TiO2-NT array. Nano Today, 2022, 43, 101407. | 11.9 | 3 |
| 94 | Silver nanostructures on a c(4Ã—2)-NiOx/Pd(100) monolayer. Surface Science, 2008, 602, 499-505. | 1.9 | 2 |
| 95 | Linearly Polarized X-ray Absorption Investigation of Ultrathin NiOx/Pd(100) Films. Journal of Physical Chemistry C, 2008, 112, 5123-5128. | 3.1 | 2 |
| 96 | Chemisorption of CO on Au/TiOx/Pt(111) Model Catalysts with Different Stoichiometry and Defectivity. Journal of Nanoscience and Nanotechnology, 2008, 8, 3595-3602. | 0.9 | 2 |
| 97 | Interaction of iron with a wagon wheel-like ultrathin TiO<sub>x</sub> film grown on Pt(111). Physical Chemistry Chemical Physics, 2015, 17, 18055-18062. | 2.8 | 2 |
| 98 | Reliability of Blue-Emitting Eu2+-Doped Phosphors for Laser-Lighting Applications. Materials, 2018, 11, 1552. | 2.9 | 1 |
| 99 | Synthesis and structure of catena-poly-[Î¼-dichloro-(1,2,3,-Î·)-2-methyl-propenylrhodium]. Inorganica Chimica Acta, 1997, 254, 173-175. | 2.4 | 0 |
| 100 | Advanced Diffusion Strategies for Junction Formation in Germanium. Proceedings (mdpi), 2019, 26, . | 0.2 | 0 |
| 101 | Plasmaâ€Assisted Synthesis of Co<sub>3</sub>O<sub>4</sub>â€Based Electrocatalysts on Ni Foam Substrates for the Oxygen Evolution Reaction (Adv. Mater. Interfaces 18/2021). Advanced Materials Interfaces, 2021, 8, 2170099. | 3.7 | 0 |
| 102 | Mesoporosity and nitrogen doping: The leading effect in oxygen reduction reaction activity and selectivity at nitrogenâ€doped carbons prepared by using polyethylene oxideâ€blockâ€polystyrene as a sacrificial template. Electrochemical Science Advances, 2023, 3, . | 2.8 | 0 |