Imre BertÃ³ti

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Fluorescence probing of binding sites on graphene oxide nanosheets with Oxazine 1 dye. Applied Surface Science, 2021, 541, 148451. | 6.1 | 10 |
| 2 | Thermal degradation of crab shell biomass, a nitrogen-containing carbon precursor. Journal of Thermal Analysis and Calorimetry, 2020, 142, 301-308. | 3.6 | 23 |
| 3 | Chemical structure and in vitro cellular uptake of luminescent carbon quantum dots prepared by solvothermal and microwave assisted techniques. Journal of Colloid and Interface Science, 2019, 549, 150-161. | 9.4 | 26 |
| 4 | Synergism of nitrogen and reduced graphene in the electrocatalytic behavior of resorcinol - Formaldehyde based carbon aerogels. Carbon, 2018, 139, 872-879. | 10.3 | 26 |
| 5 | Morphology Conserving High Efficiency Nitrogen Doping of Titanate Nanotubes by NH3 Plasma. Topics in Catalysis, 2018, 61, 1263-1273. | 2.8 | 5 |
| 6 | Palladium on Polydopamine: Its True Potential in Catalytic Transfer Hydrogenations and Heck Coupling Reactions. ChemCatChem, 2017, 9, 3236-3244. | 3.7 | 21 |
| 7 | Gold nano-particle formation from crystalline AuCN: Comparison of thermal, plasma- and ion-beam activated decomposition. Journal of Solid State Chemistry, 2017, 246, 65-74. | 2.9 | 9 |
| 8 | Low pressure RF plasma modification of the surface of three different nano-carbon materials. Open Chemistry, 2015, 13, . | 1.9 | 4 |
| 9 | Hybrid Zinc-Rich Paint Coatings. , 2015, , 195-249. | | 2 |
| 10 | The supramolecular chemistry of gold and l -cysteine: Formation of photoluminescent, orange-emitting assemblies with multilayer structure. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 470, 8-14. | 4.7 | 25 |
| 11 | Reducing and multiple-element doping of graphene oxide using active screen plasma treatments. Carbon, 2015, 95, 338-346. | 10.3 | 24 |
| 12 | Surface modification of graphene and graphite by nitrogen plasma: Determination of chemical state alterations and assignments by quantitative X-ray photoelectron spectroscopy. Carbon, 2015, 84, 185-196. | 10.3 | 160 |
| 13 | Effect of the solid precursors on the formation of nanosized TiBx powders in RF thermal plasma. Ceramics International, 2014, 40, 3925-3931. | 4.8 | 8 |
| 14 | Corrosion protection with zinc-rich epoxy paint coatings embedded with various amounts of highly dispersed polypyrrole-deposited alumina monohydrate particles. Progress in Organic Coatings, 2013, 76, 17-32. | 3.9 | 61 |
| 15 | Palladium Nanoparticle–Graphene Catalysts for Asymmetric Hydrogenation. Catalysis Letters, 2013, 143, 539-546. | 2.6 | 37 |
| 16 | Mechanical Behavior of Bioactive TiC Nanocomposite Thin Films. Materials Science Forum, 2012, 729, 296-301. | 0.3 | 4 |
| 17 | Characterization of active screen plasma modified polyurethane surfaces. Surface and Coatings Technology, 2012, 206, 4799-4807. | 4.8 | 29 |
| 18 | Morphology and adsorption properties of chemically modified MWCNT probed by nitrogen, n-propane and water vapor. Carbon, 2012, 50, 577-585. | 10.3 | 31 |

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|----|--|-----|-----------|
| 19 | Active screen plasma surface modification of polycaprolactone to improve cell attachment. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2012, 100B, 314-320. | 3.4 | 30 |
| 20 | Surface modification of multi-wall carbon nanotubes by nitrogen attachment. Diamond and Related Materials, 2011, 20, 965-968. | 3.9 | 17 |
| 21 | Formation of thin boron nitride coating on multiwall carbon nanotube surfaces. Diamond and Related Materials, 2011, 20, 227-231. | 3.9 | 17 |
| 22 | Corrosion protection of cold-rolled steel by zinc-rich epoxy paint coatings loaded with nano-size alumina supported polypyrrole. Corrosion Science, 2011, 53, 3486-3499. | 6.6 | 84 |
| 23 | Structure and surface coverage of water-based stearate coatings on calcium carbonate nanoparticles. Journal of Colloid and Interface Science, 2011, 362, 67-73. | 9.4 | 18 |
| 24 | Nano-Micro Pigment Composites for High Performance Paints. Materials Science Forum, 2010, 659, 203-208. | 0.3 | 1 |
| 25 | Surface chemical and nanomechanical alterations in plasma immersion ion implanted PET. Surface and Interface Analysis, 2008, 40, 664-667. | 1.8 | 12 |
| 26 | Corrosion protection properties of hydroxamic acid self-assembled monolayer on carbon steel. Corrosion Science, 2008, 50, 1644-1649. | 6.6 | 100 |
| 27 | Effect of metal ions on corrosion inhibition of pimeloyl-1,5-di-hydroxamic acid for steel in neutral solution. Corrosion Science, 2007, 49, 2754-2766. | 6.6 | 26 |
| 28 | Surface and Bulk Composition, Structure, and Photocatalytic Activity of Phosphate-Modified TiO ₂ . Chemistry of Materials, 2007, 19, 4811-4819. | 6.7 | 163 |
| 29 | Surface chemistry and adhesion in carbon fiber reinforced epoxy microcomposites. Composite Interfaces, 2005, 12, 243-258. | 2.3 | 2 |
| 30 | Combined AFM/XPS study of the failure surfaces in the PVC film/adhesive/glass system. Journal of Adhesion Science and Technology, 1999, 13, 97-107. | 2.6 | 0 |
| 31 | Optical properties of ceramic-like layers obtained by low energy ion beam irradiation of polysiloxane films. Nuclear Instruments & Methods in Physics Research B, 1998, 141, 684-692. | 1.4 | 19 |
| 32 | Formation of boron nitride thin films on β-Si3N4 whiskers and α-SiC platelets by dip-coating. Journal of the European Ceramic Society, 1998, 18, 1037-1043. | 5.7 | 48 |
| 33 | Surface Characterization of Cuâ~'M (M = Ti, Zr, or Hf) Alloy Powder Catalysts. Journal of Physical Chemistry B, 1998, 102, 9258-9265. | 2.6 | 11 |
| 34 | Valence electronic structure of selected polyorganosiloxanes; x-ray photoelectron spectroscopy and quantum chemical studies. Journal of Physics Condensed Matter, 1997, 9, 4781-4790. | 1.8 | 7 |
| 35 | lon beam induced chemical effects in organosilicon polymers. Nuclear Instruments & Methods in Physics Research B, 1996, 116, 299-304. | 1.4 | 24 |
| 36 | The behaviour of trimethoxyvinylsilane on various substrates: an XPS study. Composite Interfaces, 1994, 2, 291-306. | 2.3 | 0 |

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|----|--|-----|-----------|
| 37 | Sputterâ€deposited Cr–Si–O Cermet Films by XPS. Surface Science Spectra, 1994, 3, 105-111. | 1.3 | Ο |
| 38 | Oxidative damage and recovery of silicone rubber surfaces. I. X-ray photoelectron spectroscopic study. Journal of Applied Polymer Science, 1994, 52, 1293-1307. | 2.6 | 151 |
| 39 | ESCA (XPS) study on light-induced yellowing of thermomechanical and chemothermomechanical pulps. Applied Surface Science, 1993, 72, 209-213. | 6.1 | 17 |
| 40 | Composition changes in bombarded oxides and carbides: the distinction between ballistic, chemically guided, and chemically random behavior. Nuclear Instruments & Methods in Physics Research B, 1993, 80-81, 1154-1163. | 1.4 | 37 |
| 41 | Response of oxides to ion bombardment: the difference between inert and reactive ions. Nuclear Instruments & Methods in Physics Research B, 1993, 80-81, 1219-1225. | 1.4 | 36 |
| 42 | A possible solution to the problem of compositional change with ion-bombarded oxides. Surface and Interface Analysis, 1992, 19, 291-297. | 1.8 | 45 |
| 43 | Investigation of Coal Surfaces by ESCA (XPS). , 1992, , 49-67. | | 0 |
| 44 | X-ray, electron, and ion beam induced modifications of poly(ether sulfone). Macromolecules, 1991, 24, 99-105. | 4.8 | 45 |
| 45 | Modified polyethersulfone membranes. Journal of Membrane Science, 1991, 62, 201-210. | 8.2 | 28 |
| 46 | Surface modification and characterization of particulate mineral fillers. Journal of Colloid and Interface Science, 1990, 135, 200-208. | 9.4 | 141 |
| 47 | X-ray photoelectron spectroscopy studies on solid xanthates. Journal of Electron Spectroscopy and Related Phenomena, 1990, 50, 239-250. | 1.7 | 6 |
| 48 | Chlorination of a slag produced from red mud. Reactivity of Solids, 1988, 5, 139-153. | 0.3 | 8 |
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