

Imre Bertti

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48
papers

1,367
citations

20
h-index

36
g-index

52
ext. papers

1,468
ext. citations

4.5
avg, IF

4.14
L-index

#	Paper	IF	Citations
48	Surface and Bulk Composition, Structure, and Photocatalytic Activity of Phosphate-Modified TiO ₂ . <i>Chemistry of Materials</i> , 2007 , 19, 4811-4819	9.6	155
47	Oxidative damage and recovery of silicone rubber surfaces. I. X-ray photoelectron spectroscopic study. <i>Journal of Applied Polymer Science</i> , 1994 , 52, 1293-1307	2.9	137
46	Surface modification and characterization of particulate mineral fillers. <i>Journal of Colloid and Interface Science</i> , 1990 , 135, 200-208	9.3	126
45	Surface modification of graphene and graphite by nitrogen plasma: Determination of chemical state alterations and assignments by quantitative X-ray photoelectron spectroscopy. <i>Carbon</i> , 2015 , 84, 185-196	10.4	125
44	Corrosion protection properties of hydroxamic acid self-assembled monolayer on carbon steel. <i>Corrosion Science</i> , 2008 , 50, 1644-1649	6.8	83
43	Corrosion protection of cold-rolled steel by zinc-rich epoxy paint coatings loaded with nano-size alumina supported polypyrrole. <i>Corrosion Science</i> , 2011 , 53, 3486-3499	6.8	73
42	Corrosion protection with zinc-rich epoxy paint coatings embedded with various amounts of highly dispersed polypyrrole-deposited alumina monohydrate particles. <i>Progress in Organic Coatings</i> , 2013 , 76, 17-32	4.8	47
41	Formation of boron nitride thin films on Ti ₃ N ₄ whiskers and TiC platelets by dip-coating. <i>Journal of the European Ceramic Society</i> , 1998 , 18, 1037-1043	6	45
40	A possible solution to the problem of compositional change with ion-bombarded oxides. <i>Surface and Interface Analysis</i> , 1992 , 19, 291-297	1.5	42
39	X-ray, electron, and ion beam induced modifications of poly(ether sulfone). <i>Macromolecules</i> , 1991 , 24, 99-105	5.5	42
38	Response of oxides to ion bombardment: the difference between inert and reactive ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1993 , 80-81, 1219-1225	1.2	36
37	Composition changes in bombarded oxides and carbides: the distinction between ballistic, chemically guided, and chemically random behavior. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1993 , 80-81, 1154-1163	1.2	33
36	Palladium Nanoparticle-Graphene Catalysts for Asymmetric Hydrogenation. <i>Catalysis Letters</i> , 2013 , 143, 539-546	2.8	32
35	Morphology and adsorption properties of chemically modified MWCNT probed by nitrogen, n-propane and water vapor. <i>Carbon</i> , 2012 , 50, 577-585	10.4	27
34	Modified polyethersulfone membranes. <i>Journal of Membrane Science</i> , 1991 , 62, 201-210	9.6	27
33	Active screen plasma surface modification of polycaprolactone to improve cell attachment. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2012 , 100, 314-20	3.5	25
32	Characterization of active screen plasma modified polyurethane surfaces. <i>Surface and Coatings Technology</i> , 2012 , 206, 4799-4807	4.4	22

31	Effect of metal ions on corrosion inhibition of pimeloyl-1,5-di-hydroxamic acid for steel in neutral solution. <i>Corrosion Science</i> , 2007 , 49, 2754-2766	6.8	22
30	Ion beam induced chemical effects in organosilicon polymers. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1996 , 116, 299-304	1.2	22
29	Synergism of nitrogen and reduced graphene in the electrocatalytic behavior of resorcinol - Formaldehyde based carbon aerogels. <i>Carbon</i> , 2018 , 139, 872-879	10.4	20
28	The supramolecular chemistry of gold and l -cysteine: Formation of photoluminescent, orange-emitting assemblies with multilayer structure. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015 , 470, 8-14	5.1	20
27	Optical properties of ceramic-like layers obtained by low energy ion beam irradiation of polysiloxane films. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1998 , 141, 684-692	1.2	18
26	Chemical structure and in vitro cellular uptake of luminescent carbon quantum dots prepared by solvothermal and microwave assisted techniques. <i>Journal of Colloid and Interface Science</i> , 2019 , 549, 150-161	9.3	16
25	Formation of thin boron nitride coating on multiwall carbon nanotube surfaces. <i>Diamond and Related Materials</i> , 2011 , 20, 227-231	3.5	16
24	Reducing and multiple-element doping of graphene oxide using active screen plasma treatments. <i>Carbon</i> , 2015 , 95, 338-346	10.4	15
23	Palladium on Polydopamine: Its True Potential in Catalytic Transfer Hydrogenations and Heck Coupling Reactions. <i>ChemCatChem</i> , 2017 , 9, 3236-3244	5.2	14
22	ESCA (XPS) study on light-induced yellowing of thermomechanical and chemothermomechanical pulps. <i>Applied Surface Science</i> , 1993 , 72, 209-213	6.7	14
21	Surface modification of multi-wall carbon nanotubes by nitrogen attachment. <i>Diamond and Related Materials</i> , 2011 , 20, 965-968	3.5	13
20	Thermal degradation of crab shell biomass, a nitrogen-containing carbon precursor. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 142, 301-308	4.1	12
19	Structure and surface coverage of water-based stearate coatings on calcium carbonate nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2011 , 362, 67-73	9.3	12
18	Surface chemical and nanomechanical alterations in plasma immersion ion implanted PET. <i>Surface and Interface Analysis</i> , 2008 , 40, 664-667	1.5	10
17	Surface Characterization of CuM (M = Ti, Zr, or Hf) Alloy Powder Catalysts. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 9258-9265	3.4	10
16	Effect of the solid precursors on the formation of nanosized TiBx powders in RF thermal plasma. <i>Ceramics International</i> , 2014 , 40, 3925-3931	5.1	7
15	Valence electronic structure of selected polyorganosiloxanes; x-ray photoelectron spectroscopy and quantum chemical studies. <i>Journal of Physics Condensed Matter</i> , 1997 , 9, 4781-4790	1.8	7
14	Chlorination of a slag produced from red mud. <i>Reactivity of Solids</i> , 1988 , 5, 139-153		7

13	Gold nano-particle formation from crystalline AuCN: Comparison of thermal, plasma- and ion-beam activated decomposition. <i>Journal of Solid State Chemistry</i> , 2017 , 246, 65-74	3.3	6
12	X-ray photoelectron spectroscopy studies on solid xanthates. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1990 , 50, 239-250	1.7	5
11	Morphology Conserving High Efficiency Nitrogen Doping of Titanate Nanotubes by NH ₃ Plasma. <i>Topics in Catalysis</i> , 2018 , 61, 1263-1273	2.3	4
10	Mechanical Behavior of Bioactive TiC Nanocomposite Thin Films. <i>Materials Science Forum</i> , 2012 , 729, 296-301	0.4	4
9	Hybrid Zinc-Rich Paint Coatings 2015 , 195-249		2
8	Surface chemistry and adhesion in carbon fiber reinforced epoxy microcomposites. <i>Composite Interfaces</i> , 2005 , 12, 243-258	2.3	2
7	Photoelectron spectra and transannular interactions in 1-silacyclopent-3-enes. <i>Journal of the Chemical Society Dalton Transactions</i> , 1976 , 937		2
6	Fluorescence probing of binding sites on graphene oxide nanosheets with Oxazine 1 dye. <i>Applied Surface Science</i> , 2021 , 541, 148451	6.7	2
5	Nano-Micro Pigment Composites for High Performance Paints. <i>Materials Science Forum</i> , 2010 , 659, 203-208		1
4	Combined AFM/XPS study of the failure surfaces in the PVC film/adhesive/glass system. <i>Journal of Adhesion Science and Technology</i> , 1999 , 13, 97-107		2
3	The behaviour of trimethoxyvinylsilane on various substrates: an XPS study. <i>Composite Interfaces</i> , 1994 , 2, 291-306	2.3	
2	Sputter-deposited CrSiO ₂ Cermet Films by XPS. <i>Surface Science Spectra</i> , 1994 , 3, 105-111	1.2	
1	Investigation of Coal Surfaces by ESCA (XPS) 1992 , 49-67		