

Imre Bert³ti

List of Publications by Year in descending order

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49
papers

1,605
citations

279487

23
h-index

288905

40
g-index

52
all docs

52
docs citations

52
times ranked

2173
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface and Bulk Composition, Structure, and Photocatalytic Activity of Phosphate-Modified TiO ₂ . Chemistry of Materials, 2007, 19, 4811-4819.	3.2	163
2	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.	5.4	160
3	Oxidative damage and recovery of silicone rubber surfaces. I. X-ray photoelectron spectroscopic study. Journal of Applied Polymer Science, 1994, 52, 1293-1307.	1.3	151
4	Surface modification and characterization of particulate mineral fillers. Journal of Colloid and Interface Science, 1990, 135, 200-208.	5.0	141
5	Corrosion protection properties of hydroxamic acid self-assembled monolayer on carbon steel. Corrosion Science, 2008, 50, 1644-1649.	3.0	100
6	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.	3.0	84
7	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.	1.9	61
8	Formation of boron nitride thin films on β -Si ₃ N ₄ whiskers and β -SiC platelets by dip-coating. Journal of the European Ceramic Society, 1998, 18, 1037-1043.	2.8	48
9	X-ray, electron, and ion beam induced modifications of poly(ether sulfone). Macromolecules, 1991, 24, 99-105.	2.2	45
10	A possible solution to the problem of compositional change with ion-bombarded oxides. Surface and Interface Analysis, 1992, 19, 291-297.	0.8	45
11	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.	0.6	37
12	Palladium Nanoparticle-Graphene Catalysts for Asymmetric Hydrogenation. Catalysis Letters, 2013, 143, 539-546.	1.4	37
13	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.	0.6	36
14	Morphology and adsorption properties of chemically modified MWCNT probed by nitrogen, n-propane and water vapor. Carbon, 2012, 50, 577-585.	5.4	31
15	Active screen plasma surface modification of polycaprolactone to improve cell attachment. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2012, 100B, 314-320.	1.6	30
16	Characterization of active screen plasma modified polyurethane surfaces. Surface and Coatings Technology, 2012, 206, 4799-4807.	2.2	29
17	Modified polyethersulfone membranes. Journal of Membrane Science, 1991, 62, 201-210.	4.1	28
18	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.	3.0	26

#	ARTICLE	IF	CITATIONS
19	Synergism of nitrogen and reduced graphene in the electrocatalytic behavior of resorcinol - Formaldehyde based carbon aerogels. <i>Carbon</i> , 2018, 139, 872-879.	5.4	26
20	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.	5.0	26
21	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.	2.3	25
22	Ion beam induced chemical effects in organosilicon polymers. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1996, 116, 299-304.	0.6	24
23	Reducing and multiple-element doping of graphene oxide using active screen plasma treatments. <i>Carbon</i> , 2015, 95, 338-346.	5.4	24
24	Thermal degradation of crab shell biomass, a nitrogen-containing carbon precursor. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 142, 301-308.	2.0	23
25	Palladium on Polydopamine: Its True Potential in Catalytic Transfer Hydrogenations and Heck Coupling Reactions. <i>ChemCatChem</i> , 2017, 9, 3236-3244.	1.8	21
26	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.	0.6	19
27	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.	5.0	18
28	ESCA (XPS) study on light-induced yellowing of thermomechanical and chemothermomechanical pulps. <i>Applied Surface Science</i> , 1993, 72, 209-213.	3.1	17
29	Surface modification of multi-wall carbon nanotubes by nitrogen attachment. <i>Diamond and Related Materials</i> , 2011, 20, 965-968.	1.8	17
30	Formation of thin boron nitride coating on multiwall carbon nanotube surfaces. <i>Diamond and Related Materials</i> , 2011, 20, 227-231.	1.8	17
31	Surface chemical and nanomechanical alterations in plasma immersion ion implanted PET. <i>Surface and Interface Analysis</i> , 2008, 40, 664-667.	0.8	12
32	Surface Characterization of Cu ^M (M = Ti, Zr, or Hf) Alloy Powder Catalysts. <i>Journal of Physical Chemistry B</i> , 1998, 102, 9258-9265.	1.2	11
33	Fluorescence probing of binding sites on graphene oxide nanosheets with Oxazine 1 dye. <i>Applied Surface Science</i> , 2021, 541, 148451.	3.1	10
34	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.	1.4	9
35	Chlorination of a slag produced from red mud. <i>Reactivity of Solids</i> , 1988, 5, 139-153.	0.3	8
36	Effect of the solid precursors on the formation of nanosized TiB _x powders in RF thermal plasma. <i>Ceramics International</i> , 2014, 40, 3925-3931.	2.3	8

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37	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.	0.7	7
38	X-ray photoelectron spectroscopy studies on solid xanthates. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1990, 50, 239-250.	0.8	6
39	Morphology Conserving High Efficiency Nitrogen Doping of Titanate Nanotubes by NH ₃ Plasma. <i>Topics in Catalysis</i> , 2018, 61, 1263-1273.	1.3	5
40	Mechanical Behavior of Bioactive TiC Nanocomposite Thin Films. <i>Materials Science Forum</i> , 2012, 729, 296-301.	0.3	4
41	Low pressure RF plasma modification of the surface of three different nano-carbon materials. <i>Open Chemistry</i> , 2015, 13, .	1.0	4
42	Photoelectron spectra and transannular interactions in 1-silacyclopent-3-enes. <i>Journal of the Chemical Society Dalton Transactions</i> , 1976, , 937.	1.1	3
43	Surface chemistry and adhesion in carbon fiber reinforced epoxy microcomposites. <i>Composite Interfaces</i> , 2005, 12, 243-258.	1.3	2
44	Hybrid Zinc-Rich Paint Coatings. , 2015, , 195-249.		2
45	Nano-Micro Pigment Composites for High Performance Paints. <i>Materials Science Forum</i> , 2010, 659, 203-208.	0.3	1
46	The behaviour of trimethoxyvinylsilane on various substrates: an XPS study. <i>Composite Interfaces</i> , 1994, 2, 291-306.	1.3	0
47	Sputter-deposited Cr-Si-O Cermet Films by XPS. <i>Surface Science Spectra</i> , 1994, 3, 105-111.	0.3	0
48	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.	1.4	0
49	Investigation of Coal Surfaces by ESCA (XPS). , 1992, , 49-67.		0