# Ioan Stamatin

List of Publications by Year
in descending order



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|---|---|---|---|
| 72 papers | 1,553 citations | 331670 21 h-index | 345221 36 g-index |
| 72 all docs | 72 docs citations | 72 times ranked | 2120 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Comprehensive model of microalgae photosynthesis rate as a function of culture conditions in photobioreactors. Applied Microbiology and Biotechnology, 2013, 97, 7627-7637. | 3.6 | 126 |
| 2 | The synthesis of multi-walled carbon nanotubes (MWNTs) by catalytic pyrolysis of the phenol-formaldehyde resins. Physica E: Low-Dimensional Systems and Nanostructures, 2007, 37, 44-48. | 2.7 | 107 |
| 3 | Fabrication of hydrophobic and antireflective coatings based on hybrid silica films by solâ€“gel process. Surface and Coatings Technology, 2012, 206, 4449-4454. | 4.8 | 85 |
| 4 | Morphic transitions of nanocarbons via laser pyrolysis of polyimide films. Journal of Analytical and Applied Pyrolysis, 2016, 121, 275-286. | 5.5 | 64 |
| 5 | Screen-printed Prussian Blue modified electrode for simultaneous detection of hydroquinone and catechol. Sensors and Actuators B: Chemical, 2014, 203, 824-832. | 7.8 | 63 |
| 6 | Laser deposition of fibrinogen blood proteins thin films by matrix assisted pulsed laser evaporation. Applied Surface Science, 2005, 248, 422-427. | 6.1 | 48 |
| 7 | Composite biocompatible hydroxyapatiteâ€“silk fibroin coatings for medical implants obtained by Matrix Assisted Pulsed Laser Evaporation. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 169, 151-158. | 3.5 | 48 |
| 8 | Electrocatalytic voltammetric determination of guanine at a cobalt phthalocyanine modified carbon nanotubes paste electrode. Journal of Electroanalytical Chemistry, 2011, 654, 8-12. | 3.8 | 47 |
| 9 | Eco-designed biohybrids based on liposomes, mintâ€“nanosilver and carbon nanotubes for antioxidant and antimicrobial coating. Materials Science and Engineering C, 2014, 39, 177-185. | 7.3 | 43 |
| 10 | Selective voltammetric determination of electroactive neuromodulating species in biological samples using iron(II) phthalocyanine modified multi-wall carbon nanotubes paste electrode. Sensors and Actuators B: Chemical, 2011, 156, 731-736. | 7.8 | 40 |
| 11 | Synthesis and characterization of PAniâ€“SiO2 and PThâ€“SiO2 nanocomposites' thin films by plasma polymerization. Progress in Solid State Chemistry, 2006, 34, 191-199. | 7.2 | 36 |
| 12 | Voltammetric determination of dihydroxybenzene isomers using a disposable pencil graphite electrode modified with cobalt-phthalocyanine. Mikrochimica Acta, 2017, 184, 1481-1488. | 5.0 | 36 |
| 13 | Polycaprolactone biopolymer thin films obtained by matrix assisted pulsed laser evaporation. Applied Surface Science, 2007, 253, 6476-6479. | 6.1 | 34 |
| 14 | PANâ€“PAni nanocomposites obtained in thermocentrifugal fields. Thin Solid Films, 2006, 495, 113-117. | 1.8 | 33 |
| 15 | Deposition of antibacterial of poly(1,3-bis-(p-carboxyphenoxy propane)-co-(sebacic anhydride)) 20:80/gentamicin sulfate composite coatings by MAPLE. Applied Surface Science, 2011, 257, 5287-5292. | 6.1 | 32 |
| 16 | Thin film composites of nanocarbons-polyaniline obtained by plasma polymerization technique. Composites Part A: Applied Science and Manufacturing, 2005, 36, 481-485. | 7.6 | 31 |
| 17 | Matrix assisted pulsed laser evaporation processing of triacetate-pullulan polysaccharide thin films for drug delivery systems. Applied Surface Science, 2006, 252, 4647-4651. | 6.1 | 31 |
| 18 | A chemically intuitive proposal for the structure of n-diamond. Molecular Physics, 2005, 103, 2707-2715. | 1.7 | 23 |

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|---|---|---|---|
| 19 | Processing of mussel adhesive protein analog thin films by matrix assisted pulsed laser evaporation. Applied Surface Science, 2005, 247, 217-224. | 6.1 | 22 |
| 20 | Nanocomposites based on functionalized nanotubes in polyaniline matrix by plasma polymerization. Progress in Solid State Chemistry, 2006, 34, 181-189. | 7.2 | 22 |
| 21 | Electropolymerized molecular imprinting on glassy carbon electrode for voltammetric detection of dopamine in biological samples. Talanta, 2016, 160, 489-498. | 5.5 | 22 |
| 22 | Laser-induced graphene as the microporous layer in proton exchange membrane fuel cells. Applied Surface Science, 2020, 504, 144096. | 6.1 | 22 |
| 23 | Functionalized polyvinyl alcohol derivatives thin films for controlled drug release and targeting systems: MAPLE deposition and morphological, chemical and in vitro characterization. Applied Surface Science, 2009, 255, 5600-5604. | 6.1 | 21 |
| 24 | Magnetic core/shell nanoparticle thin films deposited by MAPLE: Investigation by chemical, morphological and in vitro biological assays. Applied Surface Science, 2012, 258, 9250-9255. | 6.1 | 21 |
| 25 | Processing of mussel-adhesive protein analog copolymer thin films by matrix-assisted pulsed laser evaporation. Applied Surface Science, 2005, 248, 416-421. | 6.1 | 20 |
| 26 | Field emission properties of silicon carbide and diamond-like carbon (DLC) films made by chemical vapour deposition techniques. Applied Surface Science, 1999, 146, 152-157. | 6.1 | 19 |
| 27 | On the computer-aided modelling of analyteâ€“receptor interactions for an efficient sensor design. Thin Solid Films, 2006, 495, 312-315. | 1.8 | 19 |
| 28 | Thin films of polymer mimics of cross-linking mussel adhesive proteins deposited by matrix assisted pulsed laser evaporation. Applied Surface Science, 2009, 255, 5496-5498. | 6.1 | 19 |
| 29 | Physical and Barrier Properties of Apple Pectin/Cassava Starch Composite Films Incorporating L aurus nobilis â€…L. Oil and Oleic Acid. Journal of Food Processing and Preservation, 2014, 38, 1982-1993. | 2.0 | 19 |
| 30 | Rapid voltammetric detection of kojic acid at a multi-walled carbon nanotubes screen-printed electrode. Sensors and Actuators B: Chemical, 2017, 241, 406-412. | 7.8 | 19 |
| 31 | Space-Filling Supercapacitor Carpets: Highly scalable fractal architecture for energy storage. Journal of Power Sources, 2018, 384, 145-155. | 7.8 | 19 |
| 32 | MAPLE deposition of Mn(III) metalloporphyrin thin films: Structural, topographical and electrochemical investigations. Applied Surface Science, 2011, 257, 5293-5297. | 6.1 | 18 |
| 33 | Pd-decorated CNT as sensitive material for applications in hydrogen isotopes sensing - Application as gas sensor. International Journal of Hydrogen Energy, 2021, 46, 11015-11024. | 7.1 | 18 |
| 34 | Functional porphyrin thin films deposited by matrix assisted pulsed laser evaporation. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 169, 106-110. | 3.5 | 17 |
| 35 | Functionalized porphyrin conjugate thin films deposited by matrix assisted pulsed laser evaporation. Applied Surface Science, 2013, 278, 207-210. | 6.1 | 17 |
| 36 | Matrix assisted pulsed laser evaporation of cinnamate-pullulan and tosylate-pullulan polysaccharide derivative thin films for pharmaceutical applications. Applied Surface Science, 2007, 253, 7755-7760. | 6.1 | 16 |

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|---|---|---|---|
| 37 | ON THE STRUCTURE OF i-CARBON. Journal of Theoretical and Computational Chemistry, 2006, 05, 175-185. | 1.8 | 15 |
| 38 | Laser deposition of cryoglobulin blood proteins thin films by matrix assisted pulsed laser evaporation. Applied Surface Science, 2006, 252, 4652-4655. | 6.1 | 15 |
| 39 | Synthesis and characterization of polyanilineâ€“Fe@C magnetic nanocomposite powder. Applied Surface Science, 2016, 374, 213-221. | 6.1 | 15 |
| 40 | Matrix assisted pulsed laser evaporation of poly(d,l-lactide) thin films for controlled-release drug systems. Applied Surface Science, 2007, 253, 7702-7706. | 6.1 | 14 |
| 41 | Electrochemical Behaviour and Rapid Determination of Lâ€Dopa at Electrochemically Pretreated Screen Printed Carbon Electrode. Electroanalysis, 2015, 27, 2275-2279. | 2.9 | 14 |
| 42 | Selective DPV Method of Dopamine Determination in Biological Samples Containing Ascorbic Acid. Analytical Letters, 2010, 43, 1100-1110. | 1.8 | 13 |
| 43 | Microbial Fuel Cell for Nitrate Reduction. Energy Procedia, 2016, 85, 156-161. | 1.8 | 13 |
| 44 | Siâ€“Câ€“Nâ€“Fe nanostuctured ceramics from inorganic polymer precursors obtained by plasma polymerization. Materials Science and Engineering C, 2007, 27, 1331-1337. | 7.3 | 12 |
| 45 | Laser processing of polyethylene glycol derivative and block copolymer thin films. Applied Surface Science, 2009, 255, 5605-5610. | 6.1 | 11 |
| 46 | Histamine detection using functionalized porphyrin as electrochemical mediator. Comptes Rendus Chimie, 2018, 21, 270-276. | 0.5 | 11 |
| 47 | Effect of p-toluene sulphonic acid doping on the properties of plasma polymerized aniline thin films. Synthetic Metals, 2004, 147, 133-138. | 3.9 | 10 |
| 48 | Inorganic copolymers based on silanes and ferrocene monomers, precursors for advanced nanostructured ceramics. Composites Science and Technology, 2005, 65, 713-717. | 7.8 | 10 |
| 49 | Functional polyethylene glycol derivatives nanostructured thin films synthesized by matrix-assisted pulsed laser evaporation. Applied Surface Science, 2009, 255, 9873-9876. | 6.1 | 10 |
| 50 | Functionalization of carbon nanowalls by plasma jet in liquid treatment. European Physical Journal D, 2016, 70, 1. | 1.3 | 10 |
| 51 | Simplified Mathematical Model for Polarization Curve Validation and Experimental Performance Evaluation of a PEM Fuel Cell System. Procedia Manufacturing, 2019, 32, 810-819. | 1.9 | 10 |
| 52 | Processing of poly(1,3-bis-(p-carboxyphenoxy propane)-co-(sebacic anhydride)) 20:80 (P(CPP:SA)20:80) by matrix-assisted pulsed laser evaporation for drug delivery systems. Applied Surface Science, 2007, 254, 1169-1173. | 6.1 | 9 |
| 53 | Fe-inserted and shell-shaped carbon nanoparticles by cluster-mediated laser pyrolysis. Applied Surface Science, 2012, 258, 9394-9398. | 6.1 | 9 |
| 54 | Effect ofLaurus nobilisL. oil,Nigella sativaL. oil and oleic acid on the antimicrobial and physical properties of subsistence agriculture: the case of cassava/pectin based edible films. Food and Agricultural Immunology, 2013, 24, 241-254. | 1.4 | 9 |

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|---|---|---|---|
| 55 | Hybrid membranes for fuel cells based on nanometer YSZ and polyacrylonitrile matrix. Journal of Membrane Science, 2006, 277, 1-6. | 8.2 | 8 |
| 56 | Thermal properties of ecological phosphate and silicate glasses. Glass Physics and Chemistry, 2009, 35, 596-601. | 0.7 | 8 |
| 57 | Degradation of TiO2 and/or SiO2 hybrid films doped with different cationic dyes. Thin Solid Films, 2013, 534, 301-307. | 1.8 | 8 |
| 58 | Recovering Hydrogen Sulfide from Sulfurous Waters with PEM Fuel Cells. Energy Procedia, 2016, 85, 273-278. | 1.8 | 7 |
| 59 | PROTON-CONDUCTING POLYMERS AS ELECTROLYTE FOR FUEL CELLS. Nano, 2008, 03, 381-386. | 1.0 | 6 |
| 60 | Stainless Steel Surface Nitriding in Open Atmosphere Cold Plasma: Improved Mechanical, Corrosion and Wear Resistance Properties. Materials, 2021, 14, 4836. | 2.9 | 6 |
| 61 | Highly Oriented Carbon Ribbons for Advanced Multifunctional Material Engineering. Fullerenes Nanotubes and Carbon Nanostructures, 2005, 13, 543-551. | 2.1 | 5 |
| 62 | Plasma polymerized ferocenneâ€“pyrrole copolymer films. Composites Part A: Applied Science and Manufacturing, 2005, 36, 503-507. | 7.6 | 5 |
| 63 | Hybrid Proton-Exchange Membrane Based on Perfluorosulfonated Polymers and Resorcinolâ€“Formaldehyde Hydrogel. Polymers, 2021, 13, 4123. | 4.5 | 5 |
| 64 | The effect of the nanocarbon structures from laser pyrolysis on microorganisms evolution. Applied Surface Science, 2007, 253, 7729-7732. | 6.1 | 3 |
| 65 | Structure and magnetic properties of nanoparticles trapped in a carbon matrix along with the catalytic growth of carbon nanotubes. Materials Science and Engineering C, 2007, 27, 1167-1170. | 7.3 | 2 |
| 66 | Excitonâ€“phonon interaction in cylindrical semiconductor quantum dots. Physica B: Condensed Matter, 2011, 406, 4590-4595. | 2.7 | 2 |
| 67 | Graphene layers used as cryogenic temperature sensor. , 2014, , . | | 1 |
| 68 | Development of Polymer Nanocomposites as Electrolyte Membranes. Macromolecular Symposia, 2008, 267, 129-133. | 0.7 | 0 |
| 69 | Representative longitudinal optical phonon modes in polar semiconductor quantum dots. Chemical Physics, 2012, 400, 207-212. | 1.9 | 0 |
| 70 | Thin Films Based on Tungsten Carbide with Binary, Ternary and Quaternary Composition, Obtained by Magnetron Sputtering. Key Engineering Materials, 0, 660, 138-142. | 0.4 | 0 |
| 71 | Functionalized Carbon Nanotubes for Chemical Sensing: Electrochemical Detection of Hydrogen Isotopes. Coatings, 2021, 11, 968. | 2.6 | 0 |
| 72 | Exergetic Performance of a PEM Fuel Cell with Laser-Induced Graphene as the Microporous Layer. Energies, 2021, 14, 6232. | 3.1 | 0 |