

# 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	Pd-decorated CNT as sensitive material for applications in hydrogen isotopes sensing - Application as gas sensor. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 11015-11024.	7.1	18
2	Functionalized Carbon Nanotubes for Chemical Sensing: Electrochemical Detection of Hydrogen Isotopes. <i>Coatings</i> , 2021, 11, 968.	2.6	0
3	Stainless Steel Surface Nitriding in Open Atmosphere Cold Plasma: Improved Mechanical, Corrosion and Wear Resistance Properties. <i>Materials</i> , 2021, 14, 4836.	2.9	6
4	Exergetic Performance of a PEM Fuel Cell with Laser-Induced Graphene as the Microporous Layer. <i>Energies</i> , 2021, 14, 6232.	3.1	0
5	Hybrid Proton-Exchange Membrane Based on Perfluorosulfonated Polymers and Resorcinolâ€“Formaldehyde Hydrogel. <i>Polymers</i> , 2021, 13, 4123.	4.5	5
6	Laser-induced graphene as the microporous layer in proton exchange membrane fuel cells. <i>Applied Surface Science</i> , 2020, 504, 144096.	6.1	22
7	Simplified Mathematical Model for Polarization Curve Validation and Experimental Performance Evaluation of a PEM Fuel Cell System. <i>Procedia Manufacturing</i> , 2019, 32, 810-819.	1.9	10
8	Space-Filling Supercapacitor Carpets: Highly scalable fractal architecture for energy storage. <i>Journal of Power Sources</i> , 2018, 384, 145-155.	7.8	19
9	Histamine detection using functionalized porphyrin as electrochemical mediator. <i>Comptes Rendus Chimie</i> , 2018, 21, 270-276.	0.5	11
10	Voltammetric determination of dihydroxybenzene isomers using a disposable pencil graphite electrode modified with cobalt-phthalocyanine. <i>Mikrochimica Acta</i> , 2017, 184, 1481-1488.	5.0	36
11	Rapid voltammetric detection of kojic acid at a multi-walled carbon nanotubes screen-printed electrode. <i>Sensors and Actuators B: Chemical</i> , 2017, 241, 406-412.	7.8	19
12	Recovering Hydrogen Sulfide from Sulfurous Waters with PEM Fuel Cells. <i>Energy Procedia</i> , 2016, 85, 273-278.	1.8	7
13	Morphic transitions of nanocarbons via laser pyrolysis of polyimide films. <i>Journal of Analytical and Applied Pyrolysis</i> , 2016, 121, 275-286.	5.5	64
14	Electropolymerized molecular imprinting on glassy carbon electrode for voltammetric detection of dopamine in biological samples. <i>Talanta</i> , 2016, 160, 489-498.	5.5	22
15	Synthesis and characterization of polyanilineâ€“Fe@C magnetic nanocomposite powder. <i>Applied Surface Science</i> , 2016, 374, 213-221.	6.1	15
16	Functionalization of carbon nanowalls by plasma jet in liquid treatment. <i>European Physical Journal D</i> , 2016, 70, 1.	1.3	10
17	Microbial Fuel Cell for Nitrate Reduction. <i>Energy Procedia</i> , 2016, 85, 156-161.	1.8	13
18	Electrochemical Behaviour and Rapid Determination of Lâ€“Dopa at Electrochemically Pretreated Screen Printed Carbon Electrode. <i>Electroanalysis</i> , 2015, 27, 2275-2279.	2.9	14

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19	Physical and Barrier Properties of Apple Pectin/Cassava Starch Composite Films Incorporating <i>Laurus nobilis</i> L. Oil and Oleic Acid. <i>Journal of Food Processing and Preservation</i> , 2014, 38, 1982-1993.	2.0	19
20	Eco-designed biohybrids based on liposomes, mintâ€“nanosilver and carbon nanotubes for antioxidant and antimicrobial coating. <i>Materials Science and Engineering C</i> , 2014, 39, 177-185.	7.3	43
21	Screen-printed Prussian Blue modified electrode for simultaneous detection of hydroquinone and catechol. <i>Sensors and Actuators B: Chemical</i> , 2014, 203, 824-832.	7.8	63
22	Graphene layers used as cryogenic temperature sensor. , 2014, , .		1
23	Comprehensive model of microalgae photosynthesis rate as a function of culture conditions in photobioreactors. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 7627-7637.	3.6	126
24	Functionalized porphyrin conjugate thin films deposited by matrix assisted pulsed laser evaporation. <i>Applied Surface Science</i> , 2013, 278, 207-210.	6.1	17
25	Degradation of TiO <sub>2</sub> and/or SiO <sub>2</sub> hybrid films doped with different cationic dyes. <i>Thin Solid Films</i> , 2013, 534, 301-307.	1.8	8
26	Effect of <i>Laurus nobilis</i> L. oil, <i>Nigella sativa</i> L. oil and oleic acid on the antimicrobial and physical properties of subsistence agriculture: the case of cassava/pectin based edible films. <i>Food and Agricultural Immunology</i> , 2013, 24, 241-254.	1.4	9
27	Fabrication of hydrophobic and antireflective coatings based on hybrid silica films by solâ€“gel process. <i>Surface and Coatings Technology</i> , 2012, 206, 4449-4454.	4.8	85
28	Magnetic core/shell nanoparticle thin films deposited by MAPLE: Investigation by chemical, morphological and in vitro biological assays. <i>Applied Surface Science</i> , 2012, 258, 9250-9255.	6.1	21
29	Fe-inserted and shell-shaped carbon nanoparticles by cluster-mediated laser pyrolysis. <i>Applied Surface Science</i> , 2012, 258, 9394-9398.	6.1	9
30	Representative longitudinal optical phonon modes in polar semiconductor quantum dots. <i>Chemical Physics</i> , 2012, 400, 207-212.	1.9	0
31	Excitonâ€“phonon interaction in cylindrical semiconductor quantum dots. <i>Physica B: Condensed Matter</i> , 2011, 406, 4590-4595.	2.7	2
32	Electrocatalytic voltammetric determination of guanine at a cobalt phthalocyanine modified carbon nanotubes paste electrode. <i>Journal of Electroanalytical Chemistry</i> , 2011, 654, 8-12.	3.8	47
33	Deposition of antibacterial of poly(1,3-bis-(p-carboxyphenoxy propane)-co-(sebacic anhydride)) 20:80/gentamicin sulfate composite coatings by MAPLE. <i>Applied Surface Science</i> , 2011, 257, 5287-5292.	6.1	32
34	MAPLE deposition of Mn(III) metalloporphyrin thin films: Structural, topographical and electrochemical investigations. <i>Applied Surface Science</i> , 2011, 257, 5293-5297.	6.1	18
35	Selective voltammetric determination of electroactive neuromodulating species in biological samples using iron(II) phthalocyanine modified multi-wall carbon nanotubes paste electrode. <i>Sensors and Actuators B: Chemical</i> , 2011, 156, 731-736.	7.8	40
36	Composite biocompatible hydroxyapatiteâ€“silk fibroin coatings for medical implants obtained by Matrix Assisted Pulsed Laser Evaporation. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2010, 169, 151-158.	3.5	48

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37	Functional porphyrin thin films deposited by matrix assisted pulsed laser evaporation. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2010, 169, 106-110.	3.5	17
38	Selective DPV Method of Dopamine Determination in Biological Samples Containing Ascorbic Acid. <i>Analytical Letters</i> , 2010, 43, 1100-1110.	1.8	13
39	Thin films of polymer mimics of cross-linking mussel adhesive proteins deposited by matrix assisted pulsed laser evaporation. <i>Applied Surface Science</i> , 2009, 255, 5496-5498.	6.1	19
40	Functional polyethylene glycol derivatives nanostructured thin films synthesized by matrix-assisted pulsed laser evaporation. <i>Applied Surface Science</i> , 2009, 255, 9873-9876.	6.1	10
41	Functionalized polyvinyl alcohol derivatives thin films for controlled drug release and targeting systems: MAPLE deposition and morphological, chemical and in vitro characterization. <i>Applied Surface Science</i> , 2009, 255, 5600-5604.	6.1	21
42	Laser processing of polyethylene glycol derivative and block copolymer thin films. <i>Applied Surface Science</i> , 2009, 255, 5605-5610.	6.1	11
43	Thermal properties of ecological phosphate and silicate glasses. <i>Glass Physics and Chemistry</i> , 2009, 35, 596-601.	0.7	8
44	PROTON-CONDUCTING POLYMERS AS ELECTROLYTE FOR FUEL CELLS. <i>Nano</i> , 2008, 03, 381-386.	1.0	6
45	Development of Polymer Nanocomposites as Electrolyte Membranes. <i>Macromolecular Symposia</i> , 2008, 267, 129-133.	0.7	0
46	Polycaprolactone biopolymer thin films obtained by matrix assisted pulsed laser evaporation. <i>Applied Surface Science</i> , 2007, 253, 6476-6479.	6.1	34
47	Matrix assisted pulsed laser evaporation of poly(D,L-lactide) thin films for controlled-release drug systems. <i>Applied Surface Science</i> , 2007, 253, 7702-7706.	6.1	14
48	Matrix assisted pulsed laser evaporation of cinnamate-pullulan and tosylate-pullulan polysaccharide derivative thin films for pharmaceutical applications. <i>Applied Surface Science</i> , 2007, 253, 7755-7760.	6.1	16
49	The effect of the nanocarbon structures from laser pyrolysis on microorganisms evolution. <i>Applied Surface Science</i> , 2007, 253, 7729-7732.	6.1	3
50	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. <i>Applied Surface Science</i> , 2007, 254, 1169-1173.	6.1	9
51	SiO <sub>2</sub> -CaO-Na <sub>2</sub> O-Fe nanostructured ceramics from inorganic polymer precursors obtained by plasma polymerization. <i>Materials Science and Engineering C</i> , 2007, 27, 1331-1337.	7.3	12
52	Structure and magnetic properties of nanoparticles trapped in a carbon matrix along with the catalytic growth of carbon nanotubes. <i>Materials Science and Engineering C</i> , 2007, 27, 1167-1170.	7.3	2
53	The synthesis of multi-walled carbon nanotubes (MWNTs) by catalytic pyrolysis of the phenol-formaldehyde resins. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2007, 37, 44-48.	2.7	107
54	ON THE STRUCTURE OF i-CARBON. <i>Journal of Theoretical and Computational Chemistry</i> , 2006, 05, 175-185.	1.8	15

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55	Nanocomposites based on functionalized nanotubes in polyaniline matrix by plasma polymerization. <i>Progress in Solid State Chemistry</i> , 2006, 34, 181-189.	7.2	22
56	Synthesis and characterization of PANi@SiO <sub>2</sub> and PTh@SiO <sub>2</sub> nanocomposites' thin films by plasma polymerization. <i>Progress in Solid State Chemistry</i> , 2006, 34, 191-199.	7.2	36
57	Laser deposition of cryoglobulin blood proteins thin films by matrix assisted pulsed laser evaporation. <i>Applied Surface Science</i> , 2006, 252, 4652-4655.	6.1	15
58	Matrix assisted pulsed laser evaporation processing of triacetate-pullulan polysaccharide thin films for drug delivery systems. <i>Applied Surface Science</i> , 2006, 252, 4647-4651.	6.1	31
59	Hybrid membranes for fuel cells based on nanometer YSZ and polyacrylonitrile matrix. <i>Journal of Membrane Science</i> , 2006, 277, 1-6.	8.2	8
60	PAN@PANi nanocomposites obtained in thermocentrifugal fields. <i>Thin Solid Films</i> , 2006, 495, 113-117.	1.8	33
61	On the computer-aided modelling of analyte@receptor interactions for an efficient sensor design. <i>Thin Solid Films</i> , 2006, 495, 312-315.	1.8	19
62	Inorganic copolymers based on silanes and ferrocene monomers, precursors for advanced nanostructured ceramics. <i>Composites Science and Technology</i> , 2005, 65, 713-717.	7.8	10
63	Processing of mussel adhesive protein analog thin films by matrix assisted pulsed laser evaporation. <i>Applied Surface Science</i> , 2005, 247, 217-224.	6.1	22
64	Processing of mussel-adhesive protein analog copolymer thin films by matrix-assisted pulsed laser evaporation. <i>Applied Surface Science</i> , 2005, 248, 416-421.	6.1	20
65	Laser deposition of fibrinogen blood proteins thin films by matrix assisted pulsed laser evaporation. <i>Applied Surface Science</i> , 2005, 248, 422-427.	6.1	48
66	Highly Oriented Carbon Ribbons for Advanced Multifunctional Material Engineering. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2005, 13, 543-551.	2.1	5
67	A chemically intuitive proposal for the structure of n-diamond. <i>Molecular Physics</i> , 2005, 103, 2707-2715.	1.7	23
68	Thin film composites of nanocarbons-polyaniline obtained by plasma polymerization technique. <i>Composites Part A: Applied Science and Manufacturing</i> , 2005, 36, 481-485.	7.6	31
69	Plasma polymerized ferrocene@pyrrole copolymer films. <i>Composites Part A: Applied Science and Manufacturing</i> , 2005, 36, 503-507.	7.6	5
70	Effect of p-toluene sulphonic acid doping on the properties of plasma polymerized aniline thin films. <i>Synthetic Metals</i> , 2004, 147, 133-138.	3.9	10
71	Field emission properties of silicon carbide and diamond-like carbon (DLC) films made by chemical vapour deposition techniques. <i>Applied Surface Science</i> , 1999, 146, 152-157.	6.1	19
72	Thin Films Based on Tungsten Carbide with Binary, Ternary and Quaternary Composition, Obtained by Magnetron Sputtering. <i>Key Engineering Materials</i> , 0, 660, 138-142.	0.4	0