

# Gabriel C Prodan

## List of Publications by Year in descending order

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79  
papers

1,072  
citations

471509

17  
h-index

454955

30  
g-index

79  
all docs

79  
docs citations

79  
times ranked

1400  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Nearly monodispersed carbon coated iron nanoparticles for the catalytic growth of nanotubes/nanofibres. <i>Diamond and Related Materials</i> , 2004, 13, 362-370.	3.9	67
3	Iron-iron oxide core-shell nanoparticles synthesized by laser pyrolysis followed by superficial oxidation. <i>Applied Surface Science</i> , 2005, 247, 25-31.	6.1	65
4	The effect of substrate temperature on the optical properties of polycrystalline Sb <sub>2</sub> O <sub>3</sub> thin films. <i>Journal of Crystal Growth</i> , 2005, 277, 529-535.	1.5	63
5	Structural investigations on TiO <sub>2</sub> and Fe-doped TiO <sub>2</sub> nanoparticles synthesized by laser pyrolysis. <i>Thin Solid Films</i> , 2007, 515, 8438-8445.	1.8	46
6	Structural characterization of polycrystalline Sb <sub>2</sub> O <sub>3</sub> thin films prepared by thermal vacuum evaporation technique. <i>Journal of Crystal Growth</i> , 2004, 269, 392-400.	1.5	43
7	Combining resonant/non-resonant processes: Nanometer-scale iron-based material preparation via CO <sub>2</sub> laser pyrolysis. <i>Applied Surface Science</i> , 2005, 248, 138-146.	6.1	40
8	Diamond-like nanostructured carbon film deposition using thermionic vacuum arc. <i>Diamond and Related Materials</i> , 2004, 13, 1398-1401.	3.9	33
9	Titanium dioxide nanoparticles prepared by laser pyrolysis: Synthesis and photocatalytic properties. <i>Applied Surface Science</i> , 2007, 254, 1037-1041.	6.1	33
10	Iron/iron oxides core-shell nanoparticles by laser pyrolysis: Structural characterization and enhanced particle dispersion. <i>Applied Surface Science</i> , 2007, 254, 1048-1052.	6.1	30
11	Microstructural characterization and optical properties of ZnSe thin films. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 1525-1528.	3.1	29
12	Iron Oxide-Based Nanoparticles with Different Mean Sizes Obtained by the Laser Pyrolysis: Structural and Magnetic Properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 1223-1234.	0.9	28
13	Investigation of the SiC thin films synthesized by Thermionic Vacuum Arc method (TVA). <i>European Physical Journal D</i> , 2012, 66, 1.	1.3	27
14	Influence of In doping on electro-optical properties of ZnO films. <i>Bulletin of Materials Science</i> , 2013, 36, 231-237.	1.7	25
15	Properties of PEG-capped CdS nanopowders synthesized under very mild conditions. <i>Powder Technology</i> , 2015, 270, 197-204.	4.2	24
16	Sol-gel preparation and characterization of perovskite lanthanum lithium titanate. <i>Journal of Materials Science</i> , 2007, 42, 3373-3377.	3.7	21
17	Considerations about the Dependence of PEGylated ZnS Nanoparticles Properties on the Synthesis Method. <i>Zeitschrift Fur Physikalische Chemie</i> , 2017, 232, 61-77.	2.8	20
18	Facile synthesis, characterization and application of functionalized cadmium sulfide nanopowders. <i>Materials Chemistry and Physics</i> , 2016, 173, 70-77.	4.0	17

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19	Evaluation of Mean Diameter values using Scherrer Equation Applied to Electron Diffraction Images. , 2007, , 231-237.		16
20	Laser synthesis of magnetic iron-carbon nanocomposites with size dependent properties. Advanced Powder Technology, 2012, 23, 88-96.	4.1	16
21	Growth of oxide thin films for optical gas sensor applications. Applied Surface Science, 2006, 252, 4582-4586.	6.1	15
22	Effects of some synthesis parameters on the structure of titania nanoparticles obtained by laser pyrolysis. Applied Surface Science, 2007, 253, 7908-7911.	6.1	15
23	Carbon nanotubes grown by catalytic CO <sub>2</sub> laser-induced chemical vapor deposition on core-shell Fe/C composite nanoparticles. Infrared Physics and Technology, 2008, 51, 186-197.	2.9	15
24	New Composite Nanomaterials with Antimicrobial and Photocatalytic Properties Based on Silver and Zinc Oxide. Journal of Inorganic and Organometallic Polymers and Materials, 2019, 29, 2072-2082.	3.7	15
25	Infrared laser synthesis and properties of magnetic nano-iron-polyoxocarbosilane composites. Applied Organometallic Chemistry, 2005, 19, 1015-1021.	3.5	14
26	Investigations on the influence of surfactant in morphology and optical properties of zinc oxide nanopowders for dye-sensitized solar cells applications. Materials Science in Semiconductor Processing, 2013, 16, 1095-1104.	4.0	14
27	Structural and sensing properties of a novel Fe/Fe <sub>2</sub> O <sub>3</sub> /polyoxocarbosilane core shell nanocomposite powder prepared by laser pyrolysis. Journal of Materials Science, 2007, 42, 1838-1846.	3.7	12
28	Biocompatibility and bioactivity enhancement of Ce stabilized ZrO <sub>2</sub> doped HA coatings by controlled porosity change of Al <sub>2</sub> O <sub>3</sub> substrates. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2011, 96B, 218-224.	3.4	12
29	Recent developments in the formation and structure of tin-iron oxides by laser pyrolysis. Applied Surface Science, 2011, 257, 5460-5464.	6.1	12
30	Magnesium plasma diagnostics by heated probe and characterization of the Mg thin films deposited by thermionic vacuum arc technology. Plasma Sources Science and Technology, 2015, 24, 035008.	3.1	12
31	The Properties of Binary and Ternary Ti Based Coatings Produced by Thermionic Vacuum Arc (TVA) Technology. Coatings, 2018, 8, 114.	2.6	11
32	Structural and optical characterization of undoped, doped, and clustered ZnO thin films obtained by PLD for gas sensing applications. Applied Surface Science, 2007, 253, 6499-6503.	6.1	10
33	The influence of Triton X-100 surfactant on the morphology and properties of zinc sulfide nanoparticles for applications in azo dyes degradation. Materials Chemistry and Physics, 2017, 193, 316-328.	4.0	10
34	Pulsed Laser Fabrication of TiO <sub>2</sub> Buffer Layers for Dye Sensitized Solar Cells. Nanomaterials, 2019, 9, 746.	4.1	10
35	Zn/F-doped tin oxide nanoparticles synthesized by laser pyrolysis: structural and optical properties. Beilstein Journal of Nanotechnology, 2019, 10, 9-21.	2.8	10
36	Synthesis of cadmium complex sulfides nanoparticles by thermal decomposition. Journal of Thermal Analysis and Calorimetry, 2005, 81, 399-405.	3.6	9



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55	Silica nanowires obtained on clay mineral layers and their influence on mini-emulsion polymerisation. Applied Clay Science, 2014, 95, 232-242.	5.2	3
56	Iron-carbon nanocomposite obtained by laser-induced gas-phase reactions. , 2003, , .		2
57	Transmission Electron Microscopy Study on the Formation of Al <sub>18</sub> B <sub>4</sub> O <sub>33</sub> Whiskers. Mikrochimica Acta, 2004, 147, 147.	5.0	2
58	Carbon-encapsulated iron nanoparticles prepared by laser pyrolysis: characterization and catalyzers for carbon nanotubes and nanofibers. , 2004, , .		2
59	ZnO nanoparticles obtained by hydrothermal method at low temperature. Proceedings of SPIE, 2008, , .	0.8	2
60	Synthesis and Characterization of Some Carbon Based Nanostructures. Contributions To Plasma Physics, 2011, 51, 546-553.	1.1	2
61	The effect of the substrate temperature and the acceleration potential drop on the structural and physical properties of SiC thin films deposited by TVA method. , 2014, , .		2
62	Structural and electrical properties of N doped SiC nanostructures obtained by TVA method. , 2015, , .		2
63	<title>TEM study of CaTiO <sub>3</sub> synthesized by sol-gel method</title>. , 2004, , .		1
64	Iron/iron carbides/carbon core-shell nanostructures synthesized by laser pyrolysis. , 2005, 5924, 288.		1
65	Properties, stability and aging in (Pb,Sr)TiO <sub>3</sub> -PbZrO <sub>3</sub> -Pb(Mg <sub>1/3</sub> Sb <sub>2/3</sub> )O <sub>3</sub> ferroelectric ceramics. European Physical Journal Special Topics, 2005, 128, 105-110.	0.2	1
66	<title>Functionalized Si/SiO <sub>2</sub> quantum dots</title>. , 2007, , .		1
67	Synthesis and characterization of some carbon based nanostructures. , 2010, , .		1
68	Electron microscopy characterization of some carbon based nanostructures with application in divertors coatings from fusion reactor. , 2011, , .		1
69	Application of carbon-aluminum nanostructures in divertor coatings from fusion reactor. , 2012, , .		1
70	SiC multi-layer protective coating on carbon obtained by thermionic vacuum arc method. Proceedings of SPIE, 2013, , .	0.8	1
71	Characterization of nitrogen doped silicon-carbon multi-layer nanostructures obtained by TVA method. Proceedings of SPIE, 2016, , .	0.8	1
72	Laser pyrolysis synthesis of Sn-Fe-N@polycarbosilazane nanocomposites, characterization and evaluation as energy storage materials. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	1

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73	Complex rare-earth-substituted lead titanate piezoceramics: II. , 2005, 5650, 446.		0
74	Microstructural Investigation of Complex Doped PT-Type Ceramics. Ferroelectrics, 2005, 319, 3-10.	0.6	0
75	Study of Si/SiO <sub>2</sub> nanoparticles produced by laser ablation. , 2006, , .		0
76	Electron microscopy characterization of iron oxide nanopowders (prepared by laser pyrolysis) for magnetic fluid applications. , 2007, , .		0
77	<title>Structural and magnetic properties of nanosized iron-polyoxocarbosilane core-shell composites prepared by laser pyrolysis</title>. , 2007, , .		0
78	Growth and Characterization of the High Purity C-Mg Thin Films Obtained by Thermionic Vacuum Arc (TVA) Technology. Advanced Materials Research, 0, 816-817, 106-110.	0.3	0
79	HRTEM Study of nano-TiO <sub>2</sub> Powder. Revista De Chimie (discontinued), 2008, 59, .	0.4	0