# Gerardo Soto

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 72 papers | 1,404 citations | 279487 23 h-index | 377514 34 g-index |
| 74 all docs | 74 docs citations | 74 times ranked | 1618 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Copper nitride films produced by reactive pulsed laser deposition. Materials Letters, 2003, 57, 4130-4133. | 1.3 | 91 |
| 2 | XPS, AES, and EELS characterization of nitrogen-containing thin films. Journal of Electron Spectroscopy and Related Phenomena, 2004, 135, 27-39. | 0.8 | 73 |
| 3 | Synthesis of cubic ruthenium nitride by reactive pulsed laser ablation. Journal of Physics and Chemistry of Solids, 2007, 68, 1989-1994. | 1.9 | 57 |
| 4 | Growth of SiC and SiCxNy films by pulsed laser ablation of SiC in Ar and N2 environments. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1998, 16, 1311-1315. | 0.9 | 55 |
| 5 | Yttrium nitride thin films grown by reactive laser ablation. Journal of Physics and Chemistry of Solids, 2003, 64, 2273-2279. | 1.9 | 54 |
| 6 | AES, EELS and XPS characterization of Ti(C, N, O) films prepared by PLD using a Ti target in N2, CH4, O2 and CO as reactive gases. Applied Surface Science, 2004, 233, 115-122. | 3.1 | 50 |
| 7 | Beryllium nitride thin film grown by reactive laser ablation. Materials Letters, 2002, 52, 29-33. | 1.3 | 45 |
| 8 | Tungsten nitride films grown via pulsed laser deposition studied in situ by electron spectroscopies. Applied Surface Science, 2003, 214, 58-67. | 3.1 | 44 |
| 9 | Characterization of rhenium nitride films produced by reactive pulsed laser deposition. Materials Characterization, 2007, 58, 519-526. | 1.9 | 40 |
| 10 | SiCxNy thin films alloys prepared by pulsed excimer laser deposition. Applied Surface Science, 1998, 127-129, 564-568. | 3.1 | 37 |
| 11 | Study of composition and bonding character of CNx films. Applied Surface Science, 2001, 183, 246-258. | 3.1 | 35 |
| 12 | Modification of refractive index in silicon oxynitride films during deposition. Materials Letters, 2000, 45, 47-50. | 1.3 | 31 |
| 13 | Fabrication of hollow TiO2 nanotubes through atomic layer deposition and MWCNT templates. Powder Technology, 2017, 308, 249-257. | 2.1 | 31 |
| 14 | Electronic structure of Î²-Be3N2. Journal of Physics and Chemistry of Solids, 1998, 59, 743-746. | 1.9 | 30 |
| 15 | Synthesis and characterization of cubic BC2N grown by reactive laser ablation. Surface and Coatings Technology, 2010, 204, 4051-4056. | 2.2 | 30 |
| 16 | Electronic structure of scandium nitride with nitrogen and scandium deficits. Computational Materials Science, 2007, 40, 275-281. | 1.4 | 29 |
| 17 | Characterization of tungsten oxide films produced by reactive pulsed laser deposition. Applied Surface Science, 2003, 218, 282-290. | 3.1 | 28 |
| 18 | Mechanical properties optimization of tungsten nitride thin films grown by reactive sputtering and laser ablation. Vacuum, 2010, 85, 69-77. | 1.6 | 27 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 19 | Computational study of Hf, Ta, W, Re, Ir, Os and Pt pernitrides. Computational Materials Science, 2012, 61, 1-5. | 1.4 | 27 |
| 20 | Luminescent Characteristics of Tb Doped Al2â€‰Oâ€‰3 Films Deposited by Spray Pyrolysis. Journal of the Electrochemical Society, 1992, 139, 267-271. | 1.3 | 26 |
| 21 | First principles study on the formation of yttrium nitride in cubic and hexagonal phases. Computational Materials Science, 2008, 42, 8-13. | 1.4 | 26 |
| 22 | DLC thin films characterized by AES, XPS and EELS. Applied Surface Science, 2002, 202, 1-7. | 3.1 | 25 |
| 23 | Pulsed-bed atomic layer deposition setup for powder coating. Powder Technology, 2014, 267, 201-207. | 2.1 | 25 |
| 24 | Variable Energy Gap in Oxygenated Amorphous Cadmium Telluride. Japanese Journal of Applied Physics, 1991, 30, L1715-L1717. | 0.8 | 24 |
| 25 | Blue Photoluminescence from CeCl2 Doped Al2â€‰Oâ€‰3 Films. Journal of the Electrochemical Society, 1994, 141, 2860-2863. | 1.3 | 22 |
| 26 | In situellipsometric characterization of SiNx films grown by laser ablation. Journal of Applied Physics, 1998, 84, 5296-5305. | 1.1 | 22 |
| 27 | Spectroscopic characterization of TiCx films produced by pulsed laser deposition in CH4 environments. Applied Surface Science, 2004, 230, 254-259. | 3.1 | 21 |
| 28 | Synthesis of PtNx films by reactive laser ablation. Materials Letters, 2004, 58, 2178-2180. | 1.3 | 20 |
| 29 | Ab initio calculations of non-stoichiometric copper nitride, pure and with palladium. Journal of Alloys and Compounds, 2011, 509, 1471-1476. | 2.8 | 19 |
| 30 | Nuclear reactions as a probe of fluorine content in SnO2:F thin films. Thin Solid Films, 1991, 203, 195-201. | 0.8 | 17 |
| 31 | Beryllium nitride: an alternative material to beryllium for extreme ultraviolet and soft X-ray uses. Optical Materials, 2004, 25, 39-42. | 1.7 | 17 |
| 32 | Preparation of a Ag/SiO2 nanocomposite using a fluidized bed microwave plasma reactor, and its hydrodesulphurization and Escherichia coli bactericidal activities. Powder Technology, 2011, 213, 55-62. | 2.1 | 17 |
| 33 | Stability and electronic structure of intrinsic and intercalated copper nitride alloys. Solid State Sciences, 2008, 10, 573-579. | 1.5 | 16 |
| 34 | Plasma enhanced chemical vapor deposition of SiO2 films at low temperatures using SiCl4 and O2. Journal of Electronic Materials, 1990, 19, 1411-1415. | 1.0 | 15 |
| 35 | Amorphous magnesium nitride films produced by reactive pulsed laser deposition. Journal of Non-Crystalline Solids, 2004, 342, 65-69. | 1.5 | 15 |
| 36 | Physical and electrical characterization of yttrium-stabilized zirconia (YSZ) thin films deposited by sputtering and atomic-layer deposition. Journal of Materials Science: Materials in Electronics, 2018, 29, 15349-15357. | 1.1 | 14 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 37 | In situ monitoring and characterization of SiC interface formed in carbon films grown by pulsed laser deposition. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1997, 15, 2585-2591. | 0.9 | 13 |
| 38 | Effects of background gasâ€“plume interaction in the deposition of SiNx films. Applied Surface Science, 1998, 127-129, 1005-1010. | 3.1 | 13 |
| 39 | Al2O3-Y2O3 ultrathin multilayer stacks grown by atomic layer deposition as perspective for optical waveguides applications. Optical Materials, 2017, 72, 788-794. | 1.7 | 13 |
| 40 | SiO2 prepared by remote plasma-enhanced chemical vapor deposition using SiCl4 and O2 at substrate temperatures of less than 200 Â°C. Thin Solid Films, 1991, 206, 6-10. | 0.8 | 11 |
| 41 | Electron spectroscopic identification of carbon species on CNx films. Materials Letters, 2001, 49, 352-356. | 1.3 | 11 |
| 42 | Correlation functions between specific volume and stoichiometry for transition metal nitrides. Journal of Alloys and Compounds, 2005, 389, 42-46. | 2.8 | 10 |
| 43 | Electron stimulated desorption study of irradiated poly(vinyl chloride). Applied Surface Science, 1988, 35, 213-218. | 3.1 | 9 |
| 44 | Structural Properties of Low Temperature Silicon Oxide Films Prepared by Remote Plasmaâ€Enhanced Chemical Vapor Deposition. Journal of the Electrochemical Society, 1993, 140, 3014-3018. | 1.3 | 9 |
| 45 | Growth of beryllium nitride films by pulsed laser deposition; dielectric function determination. Thin Solid Films, 2003, 434, 7-13. | 0.8 | 9 |
| 46 | A study on the flexibility of the hot-filament configuration and its implementation for diamond, boron carbide and ternary alloys deposition. Surface and Coatings Technology, 2006, 201, 2733-2740. | 2.2 | 9 |
| 47 | Study on the formation of rhenium borides by density functional calculations. Computational Materials Science, 2008, 44, 628-634. | 1.4 | 9 |
| 48 | First principles calculations of interstitial and lamellar rhenium nitrides. Journal of Alloys and Compounds, 2012, 514, 127-134. | 2.8 | 9 |
| 49 | Low-temperature ozone treatment for carbon nanotube template removal: improving the template-based ALD method. Journal of Nanoparticle Research, 2018, 20, 1. | 0.8 | 9 |
| 50 | YSZ thin film nanostructured battery for on-chip energy storage applications. Journal of Energy Storage, 2020, 28, 101220. | 3.9 | 9 |
| 51 | Optical properties of boron nitride thin films. Diamond and Related Materials, 1994, 3, 831-835. | 1.8 | 8 |
| 52 | The control of thickness on aluminum oxide nanotubes by Atomic Layer Deposition using carbon nanotubes as removable templates. Powder Technology, 2015, 286, 602-609. | 2.1 | 8 |
| 53 | Enhancing the oxidation resistance of diamond powder by the application of Al2O3 conformal coat by atomic layer deposition. Diamond and Related Materials, 2016, 69, 108-113. | 1.8 | 8 |
| 54 | Plasma synthesis of carbon powder with embedded Fe3C nanoparticles for magnetic separation of biomolecules. Advanced Powder Technology, 2018, 29, 1035-1041. | 2.0 | 8 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 55 | Optimal sidewall functionalization for the growth of ultrathin TiO2 nanotubes via atomic layer deposition. Journal of Materials Science, 2018, 53, 2005-2015. | 1.7 | 8 |
| 56 | CdTe and CdMTe (M = Fe, In, Sb) thin film studies by MÃ¶ssbauer spectroscopy and other techniques. Thin Solid Films, 1990, 193-194, 382-394. | 0.8 | 7 |
| 57 | Epitaxial Î±-Be3N2 thin films grown on Si substrates by reactive laser ablation. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2002, 94, 62-65. | 1.7 | 7 |
| 58 | Structure determination and electronic structure of Cu3Au0.5N. Journal of Alloys and Compounds, 2014, 594, 48-51. | 2.8 | 7 |
| 59 | The role of valence electron concentration in the cohesive properties of YBxN1âˆ’x, YCxN1âˆ’x and YNxO1âˆ’x compounds. Journal of Alloys and Compounds, 2008, 463, 559-563. | 2.8 | 6 |
| 60 | Thickness effect of Yttria-Stabilized Zirconia as the electrolyte in all-solid-state thin-film supercapacitor with a wide operating temperature range. Journal of Power Sources, 2022, 537, 231555. | 4.0 | 6 |
| 61 | Study on the addition of nonmetal interstitial atoms to the yttrium lattice: formation of YB<i><sub>x</sub></i>, YC<i><sub>x</sub></i> and YN<i><sub>x</sub></i> alloys. Physica Status Solidi (B): Basic Research, 2009, 246, 82-86. | 0.7 | 5 |
| 62 | Evaluation of rhenium carbide as a prospective material for hard coating. Thin Solid Films, 2011, 519, 3236-3241. | 0.8 | 5 |
| 63 | Synthesis of ReN3 Thin Films by Magnetron Sputtering. Journal of Materials, 2014, 2014, 1-9. | 0.1 | 4 |
| 64 | Ag nanoparticles embedded in a magnetic composite for magnetic separation applications. Journal of Alloys and Compounds, 2019, 786, 839-847. | 2.8 | 4 |
| 65 | Hot Filament Chemical Vapor Deposition of Crystalline Boron Films. Journal of the Korean Ceramic Society, 2019, 56, 269-276. | 1.1 | 3 |
| 66 | Effect of inert ambient annealing on structural and defect characteristics of coaxial N-CNTs@ZnO nanotubes coated by atomic layer deposition. Ceramics International, 2022, 48, 29829-29837. | 2.3 | 3 |
| 67 | Chemical reactivity characteristics of low-temperature chlorine-doped tin oxide deposited on hydrogenated amorphous silicon. Solar Energy Materials and Solar Cells, 1990, 20, 381-386. | 0.4 | 2 |
| 68 | Electron inelastic mean free path for B4C and BC2N determined by reflection electron energy loss spectroscopy. Microelectronics Journal, 2008, 39, 1382-1384. | 1.1 | 2 |
| 69 | The most probable structures of platinum nitride as a function of composition. Physica Status Solidi (B): Basic Research, 2009, 246, 1221-1224. | 0.7 | 2 |
| 70 | Computational and experimental study of copperâ€“gold nitride formation. Journal of Alloys and Compounds, 2015, 641, 216-222. | 2.8 | 2 |
| 71 | Non-quarter-wave dielectric mirror prepared by thermal atomic layer deposition. Optics and Laser Technology, 2020, 127, 106143. | 2.2 | 1 |
| 72 | Heat-Induced Polymerization of a-CNx Films Grown by Pulsed Laser Deposition. Physica Status Solidi (B): Basic Research, 2002, 230, 351-354. | 0.7 | 0 |