

# Ignazio L Fragala

## List of Publications by Year in descending order

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93  
papers

3,257  
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101543

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docs citations

96  
times ranked

2930  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multifunctional $\text{Dy}(\text{hfa})_3$ diglyme adducts: Synthesis and magnetic/luminescent behaviour. <i>Inorganica Chimica Acta</i> , 2022, 535, 120851.	2.4	1
2	Insight into Group 4 Metallocenium-Mediated Olefin Polymerization Reaction Coordinates Using a Metadynamics Approach. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 3491-3497.	5.3	4
3	Surface structural-chemical characterization of a single-site d <sup>0</sup> heterogeneous arene hydrogenation catalyst having 100% active sites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 413-418.	7.1	87
4	Fascinating Role of the Number of f Electrons in Dipolar and Octupolar Contributions to Quadratic Hyperpolarizability of Trinuclear Lanthanides-Biscopper Schiff Base Complexes. <i>Inorganic Chemistry</i> , 2013, 52, 7550-7556.	4.0	10
5	Covalent Functionalization of Silicon Surfaces with a Cavitand-Modified Salen. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 2124-2131.	2.0	14
6	In-situ Growth and Characterization of Highly Textured $\text{La}_{0.9}\text{Sr}_{0.1}\text{MnO}_3$ Films on $\text{LaAlO}_3(100)$ Substrates. <i>Chemical Vapor Deposition</i> , 2010, 16, 143-150.	1.3	9
7	Multistep Anchoring Route of Luminescent (5-Amino-1,10-phenanthroline)tris(dibenzoylmethane)europium(III) on Si(100). <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 4121-4129.	2.0	17
8	Metal-organic chemical vapour deposition of $\text{Nd}_2/3\text{Cu}_3\text{Ti}_4\text{O}_{12}$ films. <i>IOP Conference Series: Materials Science and Engineering</i> , 2010, 8, 012019.	0.6	1
9	Fluorinated $\text{f}^2$ -Diketonate Diglyme Lanthanide Complexes as New Second-Order Nonlinear Optical Chromophores: The Role of f Electrons in the Dipolar and Octupolar Contribution to Quadratic Hyperpolarizability. <i>Journal of the American Chemical Society</i> , 2010, 132, 4966-4970.	13.7	55
10	XPS, FTIR-ATR, and AFM Structural Study of Silicon-Grafted Triol Monolayers for Controlled Anchoring of Single Molecule Magnets. <i>Journal of Physical Chemistry C</i> , 2010, 114, 20696-20701.	3.1	2
11	Atom-Efficient Carbon-Oxygen Bond Formation Processes. DFT Analysis of the Intramolecular Hydroalkoxylation/Cyclization of Alkynyl Alcohols Mediated by Lanthanide Catalysts. <i>Organometallics</i> , 2010, 29, 2004-2012.	2.3	23
12	Is There a ZnO Face Stable to Atomic Hydrogen?. <i>Advanced Materials</i> , 2009, 21, 1700-1706.	21.0	53
13	Molecular Recognition on a Cavitand-Functionalized Silicon Surface. <i>Journal of the American Chemical Society</i> , 2009, 131, 7447-7455.	13.7	58
14	Proximity and Cooperativity Effects in Binuclear d <sup>0</sup> Olefin Polymerization Catalysis. Theoretical Analysis of Structure and Reaction Mechanism. <i>Journal of the American Chemical Society</i> , 2009, 131, 3974-3984.	13.7	66
15	Tunable luminescent properties of a europium complex monolayer. <i>Journal of Materials Chemistry</i> , 2009, 19, 3507.	6.7	36
16	Selective monitoring of parts per million levels of CO by covalently immobilized metal complexes on glass. <i>Chemical Communications</i> , 2008, , 2900.	4.1	55
17	Links Between Single-Site Heterogeneous and Homogeneous Catalysis. DFT Analysis of Pathways for Organozirconium Catalyst Chemisorptive Activation and Olefin Polymerization on $\text{f}^3$ -Alumina. <i>Journal of the American Chemical Society</i> , 2008, 130, 16533-16546.	13.7	58
18	Tailoring nanostructure of ZnO thin films by plasma assisted and Au-catalyst assisted MOCVD. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 2821-2825.	3.1	3

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19	Site-Specific Anchoring of Tetrairon(III) Single Molecule Magnets on Functionalized Si(100) Surfaces. <i>Chemistry of Materials</i> , 2008, 20, 2405-2411.	6.7	47
20	Comparison between First- and Second-Generation Praseodymium Precursors for the MOCVD Synthesis of Praseodymium Aluminate Thin Films. <i>Chemistry of Materials</i> , 2007, 19, 4442-4446.	6.7	5
21	MOCVD Template Approach to the Fabrication of Free-Standing Nickel(II) Oxide Nanotube Arrays: Structural, Morphological, and Optical Properties Characterization. <i>Journal of Physical Chemistry C</i> , 2007, 111, 3211-3215.	3.1	46
22	Stereochemical Control Mechanisms in Propylene Polymerization Mediated by C <sub>1</sub> -Symmetric CGC Titanium Catalyst Centers. <i>Journal of the American Chemical Society</i> , 2007, 129, 7327-7338.	13.7	33
23	Template-Free and Seedless Growth of Pt Nanocolumns: Imaging and Probing Their Nanoelectrical Properties. <i>ACS Nano</i> , 2007, 1, 183-190.	14.6	8
24	Self-Assembly of Nanosize Coordination Cages on Si(100) Surfaces. <i>Chemistry - A European Journal</i> , 2007, 13, 6891-6898.	3.3	36
25	Effects of high temperature annealing on MOCVD grown CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> films on LaAlO <sub>3</sub> substrates. <i>Surface and Coatings Technology</i> , 2007, 201, 9243-9247.	4.8	15
26	Chemical stability of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> thin films grown by MOCVD on different substrates. <i>Thin Solid Films</i> , 2007, 515, 6470-6473.	1.8	22
27	Engineering of molecular architectures of $\beta^2$ -diketonate precursors toward new advanced materials. <i>Coordination Chemistry Reviews</i> , 2007, 251, 1931-1950.	18.8	91
28	Organolanthanide-Catalyzed Hydroamination/Cyclization Reactions of Aminoalkynes. Computational Investigation of Mechanism, Lanthanide Identity, and Substituent Effects for a Very Exothermic C <sup>+</sup> N Bond-Forming Process. <i>Organometallics</i> , 2006, 25, 5533-5539.	2.3	80
29	Cathodoluminescence Investigation of Residual Stress in Er <sup>3+</sup> :YAlO <sub>3</sub> Thin Films Grown on (110) SrTiO <sub>3</sub> Substrate by Metal-Organic Chemical Vapor Deposition. <i>Journal of Physical Chemistry B</i> , 2006, 110, 23977-23981.	2.6	14
30	Synthesis, characterization and application of Ni(tta) <sub>2</sub> ·tmeda to MOCVD of nickel oxide thin films. <i>Dalton Transactions</i> , 2006, , 1101-1106.	3.3	31
31	Grafting Cavitands on the Si(100) Surface. <i>Langmuir</i> , 2006, 22, 11126-11133.	3.5	41
32	Calcium Copper <sup>II</sup> Titanate Thin Film Growth: Tailoring of the Operational Conditions through Nanocharacterization and Substrate Nature Effects. <i>Journal of Physical Chemistry B</i> , 2006, 110, 17460-17467.	2.6	33
33	Lanthanide $\beta^2$ -second-generation $\beta^2$ -precursors for MOCVD applications: Effects of the metal ionic radius and polyether length on coordination spheres and mass-transport properties. <i>Coordination Chemistry Reviews</i> , 2006, 250, 1605-1620.	18.8	68
34	Luminescent CeCl <sub>3</sub> nanoparticles by Tris(1,1,1,5,5,5-hexafluoro-2,4-pentanedionato)cerium diglyme photolysis in chlorinated solvents. <i>Inorganica Chimica Acta</i> , 2006, 359, 4043-4052.	2.4	3
35	Density Control of Dodecamanganese Clusters Anchored on Silicon(100). <i>Chemistry - A European Journal</i> , 2006, 12, 3558-3566.	3.3	26
36	Electron Transport and Dielectric Breakdown Kinetics in Pr <sub>2</sub> O <sub>3</sub> & High K Films. <i>Advances in Science and Technology</i> , 2006, 46, 21.	0.2	0

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37	MOCVD Route to the Fabrication of Calcium Copper Titanate ( $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ ) Thin Films. <i>Advances in Science and Technology</i> , 2006, 45, 1194-1199.	0.2	0
38	Plasma-assisted metalorganic chemical vapor deposition growth of ZnO thin films. <i>Journal of Materials Research</i> , 2006, 21, 1632-1637.	2.6	16
39	Effects of deposition temperature on the microstructural and electrical properties of praseodymium oxide-based films. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2005, 118, 117-121.	3.5	11
40	Effects of the thermal annealing processes on praseodymium oxide based films grown on silicon substrates. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2005, 118, 192-196.	3.5	5
41	Breakdown kinetics of $\text{Pr}_2\text{O}_3$ films by conductive-atomic force microscopy. <i>Applied Physics Letters</i> , 2005, 87, 231913.	3.3	32
42	Synthesis and characterization of $\text{La}_{2-x}\text{Ba}_x\text{CuO}_4$ thin film through a simple MOCVD approach. <i>Journal of Materials Chemistry</i> , 2005, 15, 4718.	6.7	15
43	Morphological and structural control of nanostructured $\langle 100 \rangle$ oriented $\text{CeO}_2$ films grown on random metallic substrates. <i>Journal of Materials Chemistry</i> , 2005, 15, 2328.	6.7	36
44	Energetics and Mechanism of Organolanthanide-Mediated Phosphinoalkene Hydrophosphination/Cyclization. A Density Functional Theory Analysis. <i>Organometallics</i> , 2005, 24, 4995-5003.	2.3	71
45	A Novel Diamine Adduct of Zinc Bis(2-thenoyl-trifluoroacetate) as a Promising Precursor for MOCVD of Zinc Oxide Films. <i>Inorganic Chemistry</i> , 2005, 44, 9684-9689.	4.0	39
46	Recent Advances in Characterization of $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ Thin Films by Spectroscopic Ellipsometric Metrology. <i>Journal of the American Chemical Society</i> , 2005, 127, 13772-13773.	13.7	28
47	Properties of Pr-based high k dielectric films obtained by Metal-Organic Chemical Vapor Deposition. <i>Materials Research Society Symposia Proceedings</i> , 2004, 811, 393.	0.1	0
48	Anchoring Molecular Magnets on the Si(100) Surface. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 4081-4084.	13.8	101
49	MOCVD Growth, Micro-Structural, and Superconducting Properties of a-Axis Oriented $\text{TlBaCaCuO}$ Thin Films.. <i>ChemInform</i> , 2004, 35, no.	0.0	0
50	Novel MOCVD approach to the low pressure in situ growth of $\text{TlBa}_2\text{CaCu}_2\text{O}_7$ films. <i>Physica C: Superconductivity and Its Applications</i> , 2004, 408-410, 894-895.	1.2	9
51	A volatile $\text{Pb(II)}$ $\hat{\text{I}}^2$ -Diketonate diglyme complex as a promising precursor for MOCVD of lead oxide films. <i>Inorganica Chimica Acta</i> , 2004, 357, 3927-3933.	2.4	24
52	Energetics and Mechanism of Organolanthanide-Mediated Aminoalkene Hydroamination/Cyclization. A Density Functional Theory Analysis. <i>Organometallics</i> , 2004, 23, 4097-4104.	2.3	109
53	Free-Standing Copper(II) Oxide Nanotube Arrays through an MOCVD Template Process. <i>Chemistry of Materials</i> , 2004, 16, 5559-5561.	6.7	67
54	MOCVD Growth, Micro-Structural, and Superconducting Properties of a-Axis Oriented $\text{TlBaCaCuO}$ Thin Films. <i>Chemistry of Materials</i> , 2004, 16, 608-613.	6.7	10

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55	Photochemical Mechanism of the Formation of Nanometer-Sized Copper by UV Irradiation of Ethanol Bis(2,4-pentandionato)copper(II) Solutions. <i>Chemistry of Materials</i> , 2004, 16, 1260-1266.	6.7	68
56	Relationship between the Nanostructures and the Optical Properties of CeO <sub>2</sub> Thin Films. <i>Journal of Physical Chemistry B</i> , 2004, 108, 16357-16364.	2.6	35
57	A single photochemical route for the formation of both copper nanoparticles and patterned nanostructured films. <i>Journal of Materials Chemistry</i> , 2003, 13, 2409-2411.	6.7	52
58	Heteroepitaxial Growth of Nanostructured Cerium Dioxide Thin Films by MOCVD on a (001) TiO <sub>2</sub> Substrate. <i>Chemistry of Materials</i> , 2003, 15, 1434-1440.	6.7	33
59	Dielectric properties of Pr <sub>2</sub> O <sub>3</sub> high-k films grown by metalorganic chemical vapor deposition on silicon. <i>Applied Physics Letters</i> , 2003, 83, 129-131.	3.3	51
60	Kinetics and Mechanisms of MOCVD Processes for the Fabrication of Sr-Containing Films From Sr(hfac) <sub>2</sub> Tetraglyme Precursor. <i>Chemistry of Materials</i> , 2002, 14, 4307-4312.	6.7	12
61	MOCVD of CeF <sub>3</sub> films on Si(100) substrates: synthesis, characterization and luminescence spectroscopy. <i>Journal of Materials Chemistry</i> , 2002, 12, 2816-2819.	6.7	27
62	A metal-organic chemical vapor deposition approach to double-sided Ti <sub>2</sub> Ba <sub>2</sub> Ca <sub>1</sub> Cu <sub>2</sub> O <sub>8</sub> superconducting films on LaAlO <sub>3</sub> (100) substrates. <i>Journal of Materials Chemistry</i> , 2002, 12, 3728-3732.	6.7	12
63	Energetic, Structural, and Dynamic Aspects of Ethylene Polymerization Mediated by Homogeneous Single-Site $\sigma$ -Constrained Geometry Catalysts in the Presence of Cocatalyst and Solvation: An Investigation at the ab Initio Quantum Chemical Level. <i>Organometallics</i> , 2002, 21, 5594-5612.	2.3	109
64	Metal and Ancillary Ligand Structural Effects on Ethylene Insertion Processes at Cationic Group 4 Centers. A Systematic, Comparative Quantum Chemical Investigation at Various ab Initio Levels. <i>Organometallics</i> , 2001, 20, 4006-4017.	2.3	55
65	Metal-Organic Chemical Vapor Deposition of CeO <sub>2</sub> $\langle 100 \rangle$ Oriented Films on No-Rolled Hastelloy C276. <i>Chemistry of Materials</i> , 2001, 13, 4402-4404.	6.7	33
66	Ligand Substituent, Anion, and Solvation Effects on Ion Pair Structure, Thermodynamic Stability, and Structural Mobility in $\sigma$ -Constrained Geometry Olefin Polymerization Catalysts: An Ab Initio Quantum Chemical Investigation. <i>Journal of the American Chemical Society</i> , 2000, 122, 12764-12777.	13.7	140
67	Theoretical modeling of $\sigma$ -constrained geometry catalysts beyond the naked cation approach. <i>Topics in Catalysis</i> , 1999, 7, 45-60.	2.8	25
68	Kinetic Study of MOCVD Fabrication of Copper(I) and Copper(II) Oxide Films. <i>Chemical Vapor Deposition</i> , 1999, 5, 21-27.	1.3	18
69	MOCVD of Platinum (100) Films on Random Hastelloy C276. <i>Chemical Vapor Deposition</i> , 1999, 5, 59-61.	1.3	22
70	Absolute Metal-Ligand $\sigma$ Bond Enthalpies in Group 4 Metallocenes. A Thermochemical, Structural, Photoelectron Spectroscopic, and ab Initio Quantum Chemical Investigation. <i>Journal of the American Chemical Society</i> , 1999, 121, 355-366.	13.7	47
71	Theoretical Study of the Molecular Properties of Cerium Trihalides and Tetrahalides CeX <sub>n</sub> (n = 3, 4; X = F, Cl, Br, I). <i>Journal of Physical Chemistry</i> , 1998, 102, 7843-7854.	2.5	24
72	Synthesis, crystal structure and solid-state dynamics of the La(hfa) <sub>3</sub> ·Me(OCH <sub>2</sub> CH <sub>2</sub> ) <sub>4</sub> OMe (Hfa = 1,1,1,5,5,5-hexafluoropentane-2,4-dione) precursor for MOCVD applications. <i>Journal of the Chemical Society Dalton Transactions</i> , 1998, , 1509-1512.	1.1	19



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91	Photoelectron Spectroscopy of f-Element Organometallic Complexes. , 1985, , 327-360.		4
92	Photoelectron spectra of bis-cyclopentadienyl metal dihalides. Journal of Electron Spectroscopy and Related Phenomena, 1980, 18, 61-73.	1.7	44
93	MOCVD Growth of Rare Earth Oxides:The Case of the Praseodymium/Oxygen System. , 0, , 33-51.		1