

Gregorio Bottaro

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Design of luminescent lanthanide complexes: From molecules to highly efficient photo-emitting materials. <i>Coordination Chemistry Reviews</i> , 2010, 254, 487-505.	18.8	848
2	Photocatalytic and antibacterial activity of TiO ₂ and Au/TiO ₂ nanosystems. <i>Nanotechnology</i> , 2007, 18, 375709.	2.6	197
3	A sol-gel approach to nanophasic copper oxide thin films. <i>Thin Solid Films</i> , 2003, 442, 48-52.	1.8	188
4	Recent trends on nanocomposites based on Cu, Ag and Au clusters: A closer look. <i>Coordination Chemistry Reviews</i> , 2006, 250, 1294-1314.	18.8	185
5	Structure-Luminescence Correlations in Europium-Doped Sol-Gel ZnO Nanopowders. <i>Journal of Physical Chemistry C</i> , 2008, 112, 4049-4054.	3.1	120
6	Bismuth oxychloride nanoflakes: Interplay between composition-structure and optical properties. <i>Dalton Transactions</i> , 2012, 41, 5480.	3.3	73
7	From Blue to Green: Fine-Tuning of Photoluminescence and Electrochemiluminescence in Bifunctional Organic Dyes. <i>Journal of the American Chemical Society</i> , 2017, 139, 2060-2069.	13.7	73
8	Au/TiO ₂ Nanosystems: A Combined RF-Sputtering/Sol-Gel Approach. <i>Chemistry of Materials</i> , 2004, 16, 3331-3338.	6.7	71
9	Rational Design of Ag/TiO ₂ Nanosystems by a Combined RF-Sputtering/Sol-Gel Approach. <i>ChemPhysChem</i> , 2009, 10, 3249-3259.	2.1	62
10	Photophysical properties and tunable colour changes of silica single layers doped with lanthanide(iii) complexes. <i>Chemical Communications</i> , 2007, , 2911.	4.1	58
11	Copper single-atoms embedded in 2D graphitic carbon nitride for the CO ₂ reduction. <i>Npj 2D Materials and Applications</i> , 2021, 5, .	7.9	54
12	Luminescent Properties of Eu-Doped Lanthanum Oxyfluoride Sol-Gel Thin Films. <i>Journal of Physical Chemistry C</i> , 2009, 113, 14429-14434.	3.1	44
13	Plasma-Enhanced CVD CeO ₂ Nanocrystalline Thin Films Analyzed by XPS. <i>Surface Science Spectra</i> , 2001, 8, 247-257.	1.3	43
14	Synthesis and characterization of nanophasic LaCoO ₃ powders. <i>Surface and Interface Analysis</i> , 2002, 34, 112-115.	1.8	38
15	Folic Acid-Conjugated Europium Complexes as Luminescent Probes for Selective Targeting of Cancer Cells. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 2003-2014.	6.4	36
16	RF-sputtering of gold on silica surfaces: Evolution from clusters to continuous films. <i>Materials Science and Engineering C</i> , 2005, 25, 599-603.	7.3	34
17	Ag ⁺ /Na ⁺ ion exchanged silicate glasses for solar cells covering: Down-shifting properties. <i>Ceramics International</i> , 2015, 41, 7221-7226.	4.8	32
18	Hybrid Chemical Vapor Deposition/Sol-Gel Route in the Preparation of Nanophasic LaCoO ₃ Films. <i>Chemistry of Materials</i> , 2005, 17, 427-433.	6.7	31

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19	Circularly Polarized Luminescence of Silica-Grafted Europium Chiral Derivatives Prepared through a Sequential Functionalization. <i>Inorganic Chemistry</i> , 2017, 56, 7010-7018.	4.0	28
20	Copper-Silica Nanocomposites Tailored by the Sol-Gel Route. <i>Chemistry of Materials</i> , 2005, 17, 1450-1456.	6.7	27
21	Highly homogeneous, transparent and luminescent SiO ₂ glassy layers containing a covalently bound tetraazacyclododecane-triacetic acid-Eu(III)-acetophenone complex. <i>Journal of Materials Chemistry</i> , 2006, 16, 741-747.	6.7	27
22	Highly Photoluminescent Silica Layers Doped with Efficient Eu(III) and Tb(III) Antenna Complexes. <i>Chemistry of Materials</i> , 2009, 21, 2941-2949.	6.7	27
23	Adaptive helicity and chiral recognition in bright europium quadruple-stranded helicates induced by host-guest interaction. <i>Cell Reports Physical Science</i> , 2022, 3, 100692.	5.6	27
24	Smart Grafting of Lanthanides onto Silica via N-Dialkylcarbamato Complexes. <i>Inorganic Chemistry</i> , 2016, 55, 939-947.	4.0	24
25	Bi ₁₂ O ₁₇ Cl ₂ /(BiO) ₂ CO ₃ Nanocomposite Materials for Pollutant Adsorption and Degradation: Modulation of the Functional Properties by Composition Tailoring. <i>ACS Omega</i> , 2017, 2, 6298-6308.	3.5	24
26	Innovative Approaches to Oxide Nanosystems: CeO ₂ -ZrO ₂ Nanocomposites by a Combined PE-CVD/Sol-Gel Route. <i>Chemical Vapor Deposition</i> , 2004, 10, 257-264.	1.3	23
27	LaCoO ₃ Nanopowders by XPS. <i>Surface Science Spectra</i> , 2001, 8, 24-31.	1.3	22
28	Structural characterization of sol-gel lanthanum cobaltite thin films. <i>Crystal Engineering</i> , 2002, 5, 291-298.	0.7	22
29	Transition metal oxide-doped mesostructured silica films. <i>Applied Catalysis A: General</i> , 2003, 254, 297-310.	4.3	21
30	Single-crystal-to-single-crystal post-synthetic modifications of three-dimensional LOFs (Ln = Gd, Eu): a way to modulate their luminescence and thermometric properties. <i>Dalton Transactions</i> , 2020, 49, 6030-6042.	3.3	21
31	Microstructural and Optical Properties Modifications Induced by Plasma and Annealing Treatments of Lanthanum Oxide Sol-Gel Thin Films. <i>Journal of Physical Chemistry C</i> , 2009, 113, 2911-2918.	3.1	20
32	Ferroelectric order driven Eu ³⁺ photoluminescence in BaZr _x Ti _{1-x} O ₃ perovskite. <i>Scientific Reports</i> , 2019, 9, 6441.	3.3	20
33	Introduction to XPS Studies of Metal and Metal-oxide Nanosystems. <i>Surface Science Spectra</i> , 2003, 10, 137-142.	1.3	18
34	Lanthanum Oxyfluoride Sol-Gel Thin Films by a Simple Single-Source Precursor Route. <i>Journal of Physical Chemistry C</i> , 2008, 112, 14508-14512.	3.1	18
35	A convenient synthesis of highly luminescent lanthanide 1D-zigzag coordination chains based only on 4,4'-bipyridine as connector. <i>Polyhedron</i> , 2016, 119, 371-376.	2.2	18
36	Structural and Luminescent Properties of Homoleptic Silver(I), Gold(I), and Palladium(II) Complexes with NHC-tzNHC Heteroditopic Carbene Ligands. <i>ACS Omega</i> , 2019, 4, 4192-4205.	3.5	18

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37	Characterization of Au/TiO ₂ Nanocomposites by XPS. <i>Surface Science Spectra</i> , 2003, 10, 1-7.	1.3	17
38	Tailored synthesis of ZnO:Er(III) nanosystems by a hybrid rf-sputtering/sol-gel route. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2006, 24, 1941-1947.	2.1	17
39	Preparation of N,N-Dialkylcarbamato Lanthanide Complexes by Extraction of Lanthanide Ions from Aqueous Solution into Hydrocarbons. <i>Inorganic Chemistry</i> , 2014, 53, 4861-4871.	4.0	17
40	Optical and electrical properties of nanostructured LaCoO ₃ thin films. <i>Applied Physics Letters</i> , 2005, 87, 061909.	3.3	15
41	Structural and Magnetic Properties of Pure and Ca-Doped LaCoO ₃ Nanopowders Obtained by a Sol-Gel Route. <i>Journal of Nanoscience and Nanotechnology</i> , 2006, 6, 1060-1067.	0.9	15
42	Synthesis and structural evolution of mesoporous silica-silver nanocomposites. <i>Nanotechnology</i> , 2007, 18, 155606.	2.6	15
43	Efficient Luminescence from Fluorene and Spirobifluorene-Based Lanthanide Complexes upon Near-Visible Irradiation. <i>Chemistry - A European Journal</i> , 2014, 20, 4598-4607.	3.3	15
44	Composition- Thermometric Properties Correlations in Homodinuclear Eu ³⁺ Luminescent Complexes. <i>Inorganic Chemistry</i> , 2020, 59, 18156-18167.	4.0	14
45	Innovative metal oxide-based substrates for DNA microarrays. <i>Inorganica Chimica Acta</i> , 2008, 361, 3603-3608.	2.4	13
46	White Luminescent Silica Layers: The Molecular Design Beneath. <i>ChemPhysChem</i> , 2010, 11, 2499-2502.	2.1	13
47	Study of Ag/SiO ₂ Nanosystems by XPS. <i>Surface Science Spectra</i> , 2003, 10, 170-181.	1.3	12
48	Synthesis and photophysical characterization of highly luminescent silica films doped with substituted 2-hydroxyphthalamide (IAM) terbium complexes. <i>Dalton Transactions</i> , 2011, 40, 11530.	3.3	12
49	Luminescent Thermometers: From a Library of Europium(III) Diketonates to a General Model for Predicting the Thermometric Behaviour of Europium-Based Coordination Systems. <i>ChemPhotoChem</i> , 2020, 4, 674-684.	3.0	12
50	Opto-Microfluidic System for Absorbance Measurements in Lithium Niobate Device Applied to pH Measurements. <i>Sensors</i> , 2020, 20, 5366.	3.8	12
51	LaCoO ₃ Nanosystems by a Hybrid CVD/Sol-Gel Route: An XPS Investigation. <i>Surface Science Spectra</i> , 2003, 10, 143-149.	1.3	11
52	Composition/Structure Relationships in Monolithic Borophosphosilicate Glasses Obtained by the Sol-Gel Route. <i>Chemistry of Materials</i> , 2004, 16, 315-320.	6.7	11
53	Proteins conjugation with ZnO sol-gel nanopowders. <i>Journal of Sol-Gel Science and Technology</i> , 2011, 60, 352-358.	2.4	11
54	Homodinuclear Lanthanide Complexes with the Divergent Heterotopic 4,4'-Bipyridine N-Oxide (bipyMO) Ligand. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 4421-4428.	2.0	11

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55	1D hetero-bimetallic regularly alternated 4f ³ d coordination polymers based on N ₄ -oxide-4,4'-bipyridine (bipyMO) as a linker: photoluminescence and magnetic properties. Dalton Transactions, 2018, 47, 8337-8345.	3.3	11
56	Multireference Ab Initio Investigation on Ground and Low-Lying Excited States: Systematic Evaluation of J-J Mixing in a Eu ³⁺ Luminescent Complex. Inorganic Chemistry, 2021, 60, 315-324.	4.0	11
57	Structural evolution and effects of calcium doping on nanophasic LaCoO ₃ powders prepared by non-alkoxidic sol-gel technique. Journal of Materials Chemistry, 2005, 15, 2020.	6.7	10
58	High Magnetic Field Magneto-optics on Plasmonic Silica-Embedded Silver Nanoparticles. Journal of Physical Chemistry C, 2022, 126, 1939-1945.	3.1	10
59	LaCoO ₃ Nanosystems by a Hybrid CVD/Sol-Gel Approach. Journal of Nanoscience and Nanotechnology, 2005, 5, 781-785.	0.9	9
60	ZnO:Er(III) Nanosystems Analyzed by XPS. Surface Science Spectra, 2006, 13, 9-16.	1.3	9
61	ZrO ₂ Sol-Gel Thin Films by XPS. Surface Science Spectra, 2001, 8, 268-273.	1.3	8
62	Silica-Supported Erbium-based Nanosystems: An XPS Characterization. Surface Science Spectra, 2004, 11, 26-32.	1.3	8
63	Sol-gel synthesis and characterization of lamellar mesostructured titania films. Materials Science and Engineering C, 2005, 25, 560-564.	7.3	8
64	Possible Synthetic Approaches for Heterobimetallic Complexes by Using nNHC/tzNHC Heteroditopic Carbene Ligands. Molecules, 2019, 24, 2305.	3.8	8
65	Effect of Coordinating Solvents on the Structure of Cu(II)-4,4'-bipyridine Coordination Polymers. Inorganics, 2019, 7, 103.	2.7	8
66	Stoichiometrically Controlled Assembly of Lanthanide Molecular Complexes of the Heteroditopic Divergent Ligand 4-(4-Pyridyl)-2,2',6',2''-terpyridine N ₄ -Oxide in Hypodentate or Bridging Coordination Modes. Structural, Magnetic, and Photoluminescence Studies. Inorganic Chemistry, 2022, 61, 265-278.	4.0	8
67	Functional Metal Oxide Nanosystems by a Hybrid CVD/Sol-Gel Approach. Chemical Vapor Deposition, 2007, 13, 112-117.	1.3	7
68	Luminescent sequence-dependent materials through a step by step assembly of RE ¹ -1,4-benzendicarboxylate-RE ² (RE ^x = Y ³⁺ , Tj ETQq0,0,0 rgBT /Overlock 1 Chemistry C, 2019, 7, 4415-4423.	3.9	7
69	A film-forming graphene/diketopyrrolopyrrole covalent hybrid with far-red optical features: Evidence of photo-stability. Synthetic Metals, 2019, 258, 116201.	3.9	7
70	Antenna triplet DFT calculations to drive the design of luminescent Ln ³⁺ complexes. Dalton Transactions, 2020, 49, 14556-14563.	3.3	7
71	Hampered Subcomponent Self-Assembly Leads to an Amino Ligand: Reactivity with Silver(I) and Copper(II). European Journal of Inorganic Chemistry, 2017, 2017, 30-34.	2.0	6
72	Boron and Phosphorus Quantification in Sol-Gel BPSG Glasses by XPS. Surface Science Spectra, 2003, 10, 40-46.	1.3	5

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73	From lanthanide chlorides to lanthanide pentafluorophenolates via lanthanide N,N-dialkylcarbamates. <i>Polyhedron</i> , 2015, 85, 770-776.	2.2	5
74	Easy but not straightforward: base and solvent effect on the synthesis of luminescent europium 1,3-di(thien-2-yl)propane-1,3-dionate coordination complexes. <i>Canadian Journal of Chemistry</i> , 2017, 95, 1183-1190.	1.1	5
75	1D-Zigzag Eu ³⁺ /Tb ³⁺ Coordination Chains as Luminescent Ratiometric Thermometers Endowed with Multicolor Emission. <i>Materials</i> , 2021, 14, 6445.	2.9	5
76	Reply to "Luminescent lanthanide complexes: Selection rules and design". <i>Coordination Chemistry Reviews</i> , 2010, 254, 3029.	18.8	4
77	Nature of the Ligand-Centered Triplet State in Gd ³⁺ β -Diketonate Complexes as Revealed by Time-Resolved EPR Spectroscopy and DFT Calculations. <i>Inorganic Chemistry</i> , 2021, 60, 15141-15150.	4.0	4
78	ZrO ₂ -CeO ₂ Sol-Gel Thin Films by XPS. <i>Surface Science Spectra</i> , 2003, 10, 32-39.	1.3	3
79	A versatile single-source precursor for the synthesis of LaCoO ₃ films. <i>Materials Letters</i> , 2008, 62, 1179-1182.	2.6	3
80	Dinuclear gold(I) Complexes with Bidentate NHC Ligands as Precursors for Alkynyl Complexes via Mechanochemistry. <i>Molecules</i> , 2022, 27, 4317.	3.8	3
81	Au Nanoparticles Supported on HOPG: An XPS Characterization. <i>Surface Science Spectra</i> , 2003, 10, 164-169.	1.3	2
82	Polymerization processes in Al(OBus) ₃ sol-gel solutions: an investigation by laser desorption/ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2006, 20, 2681-2688.	1.5	2
83	Molecular photochromic systems: a theoretical and experimental investigation on zinc(II) dithizonate. <i>Applied Organometallic Chemistry</i> , 2007, 21, 246-254.	3.5	2
84	The Role of Ligand Topology in the Decomplexation of Luminescent Lanthanide Complexes by Dipicolinic Acid. <i>ChemPhysChem</i> , 2016, 17, 3229-3236.	2.1	2
85	Electronic and relating behavior of Mn-doped ZnO nanostructures: An x-ray absorption spectroscopy study. <i>AIP Advances</i> , 2021, 11, 065027.	1.3	1
86	Silver(I) and gold(I) complexes with bitriazole-based N-heterocyclic carbene ligand: Solid state features and behaviour in solution. <i>Applied Organometallic Chemistry</i> , 0, , .	3.5	1
87	Pure and Ca-doped LaCoO ₃ Nanopowders: Sol-Gel Synthesis, Characterization and Magnetic Properties. <i>Materials Research Society Symposia Proceedings</i> , 2004, 848, 480.	0.1	0
88	Sol-gel synthesis of silica-based mesoporous powders. <i>Materials Research Society Symposia Proceedings</i> , 2004, 848, 102.	0.1	0
89	Luminescent Thermometers: From a Library of Europium(III) β -Diketonates to a General Model for Predicting the Thermometric Behaviour of Europium-Based Coordination Systems. <i>ChemPhotoChem</i> , 2020, 4, 646.	3.0	0