Cinzia Sada

List of Publications by Year
in descending order

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101 papers	3,009 citations	147801 31 h-index	189892 50 g-index
101 all docs	101 docs citations	101 times ranked	4023 citing authors

#	Article	IF	Citations
1	Optical waveguides in lithium niobate: Recent developments and applications. Applied Physics Reviews, 2015, 2, .	11.3	197
2	A solâ€“gel approach to nanophasic copper oxide thin films. Thin Solid Films, 2003, 442, 48-52.	1.8	188
3	Novel Synthesis and Gas Sensing Performances of CuOâ€“TiO₂ Nanocomposites Functionalized with Au Nanoparticles. Journal of Physical Chemistry C, 2011, 115, 10510-10517.	3.1	133
4	Fe₂O₃â€“TiO₂ Nanoâ€heterostructure Photoanodes for Highly Efficient Solar Water Oxidation. Advanced Materials Interfaces, 2015, 2, 1500313.	3.7	103
5	Urchin-like ZnO nanorod arrays for gas sensing applications. CrystEngComm, 2010, 12, 3419.	2.6	90
6	Au/Îµ-Fe₂O₃ Nanocomposites as Selective NO₂ Gas Sensors. Journal of Physical Chemistry C, 2014, 118, 11813-11819.	3.1	81
7	Vapor Phase Processing of Î±-Fe₂O₃Photoelectrodes for Water Splitting: An Insight into the Structure/Property Interplay. ACS Applied Materials & Interfaces, 2015, 7, 8667-8676.	8.0	76
8	Selective anodes for seawater splitting via functionalization of manganese oxides by a plasma-assisted process. Applied Catalysis B: Environmental, 2021, 284, 119684.	20.2	73
9	Î²-Fe₂O₃nanomaterials from an iron(<scp>ii</scp>) diketonate-diamine complex: a study from molecular precursor to growth process. Dalton Transactions, 2012, 41, 149-155.	3.3	63
10	Columnar Fe2O3 arrays via plasma-enhanced growth: Interplay of fluorine substitution and photoelectrochemical properties. International Journal of Hydrogen Energy, 2013, 38, 14189-14199.	7.1	63
11	Rational Design of Ag/TiO₂ Nanosystems by a Combined RFâ€Sputtering/Solâ€Gel Approach. ChemPhysChem, 2009, 10, 3249-3259.	2.1	62
12	Charge sensor and particle trap based on z-cut lithium niobate. Applied Physics Letters, 2013, 103, .	3.3	58
13	Zirconium and hafnium oxoclusters as molecular building blocks for highly dispersed ZrO2 or HfO2 nanoparticles in silica thin films. Journal of Materials Chemistry, 2005, 15, 1838.	6.7	57
14	Plasma enhanced-CVD of undoped and fluorine-doped Co3O4 nanosystems for novel gas sensors. Sensors and Actuators B: Chemical, 2011, 160, 79-86.	7.8	56
15	CuO/ZnO Nanocomposite Gas Sensors Developed by a Plasmaâ€Assisted Route. ChemPhysChem, 2012, 13, 2342-2348.	2.1	55
16	PbS-Doped Mesostructured Silica Films with High Optical Nonlinearity. Chemistry of Materials, 2005, 17, 4965-4970.	6.7	52
17	Controlled synthesis and properties of Î²-Fe2O3 nanosystems functionalized with Ag or Pt nanoparticles. CrystEngComm, 2012, 14, 6469.	2.6	51
18	Ag/ZnO nanomaterials as high performance sensors for flammable and toxic gases. Nanotechnology, 2012, 23, 025502.	2.6	48

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19	Incorporation of a highly luminescent semiconductor quantum dot in ZrO2â€“SiO2hybrid solâ€“gel glass film. Journal of Materials Chemistry, 2004, 14, 1112-1116.	6.7	46
20	Sol-Gel Based Vertical Optical Microcavities with Quantum Dot Defect Layers. Advanced Functional Materials, 2008, 18, 3772-3779.	14.9	45
21	Luminescent Properties of Eu-Doped Lanthanum Oxyfluoride Solâ^'Gel Thin Films. Journal of Physical Chemistry C, 2009, 113, 14429-14434.	3.1	44
22	Nanostructured solâ€“gel silica thin films doped with NiO and SnO2for gas sensing applications. Journal of Materials Chemistry, 2004, 14, 2889-2895.	6.7	43
23	Er-Coupled Si Nanocluster Waveguide. IEEE Journal of Selected Topics in Quantum Electronics, 2006, 12, 1607-1617.	2.9	42
24	Solar H2generation via ethanol photoreforming on Îµ-Fe2O3nanorod arrays activated by Ag and Au nanoparticles. RSC Advances, 2014, 4, 32174.	3.6	40
25	Advances in photocatalytic NO_x abatement through the use of Fe₂O₃/TiO₂ nanocomposites. RSC Advances, 2016, 6, 74878-74885.	3.6	39
26	Plasmaâ€Assisted Fabrication of Fe₂O₃ï£¿Co₃O₄ Nanomaterials as Anodes for Photoelectrochemical Water Splitting. Plasma Processes and Polymers, 2016, 13, 191-200.	3.0	39
27	UV-photopolymerisation of poly(methyl methacrylate)-based inorganicâ€“organic hybrid coatings and bulk samples reinforced with methacrylate-modified zirconium oxocluster. Polymer, 2008, 49, 4332-4343.	3.8	38
28	Fe₂O₃â€“TiO₂nanosystems by a hybrid PE-CVD/ALD approach: controllable synthesis, growth mechanism, and photocatalytic properties. CrystEngComm, 2015, 17, 6219-6226.	2.6	37
29	Vapor Phase Synthesis, Characterization and Gas Sensing Performances of Co₃O₄ and Au/Co₃O₄ Nanosystems. Journal of Nanoscience and Nanotechnology, 2010, 10, 8054-8061.	0.9	35
30	Thiolâ€ene Hybrid Organic/Inorganic Nanostructured Coatings Based on Thiolâ€Functionalized Zirconium Oxoclusters. Macromolecular Chemistry and Physics, 2007, 208, 2560-2568.	2.2	32
31	Highly reduced iron-doped lithium niobate for optoelectronic tweezers. Applied Physics B: Lasers and Optics, 2013, 113, 191-197.	2.2	32
32	Intrinsic Nitrogenâ€doped CVDâ€grown TiO₂ Thin Films from Allâ€Nâ€coordinated Ti Precursors for Photoelectrochemical Applications. Chemical Vapor Deposition, 2013, 19, 45-52.	1.3	32
33	Zirconium-doped lithium niobate: photorefractive and electro-optical properties as a function of dopant concentration. Optical Materials Express, 2011, 1, 270.	3.0	31
34	Numerical and Experimental Study of Optoelectronic Trapping on Iron-Doped Lithium Niobate Substrate. Crystals, 2016, 6, 123.	2.2	30
35	Vapor Phase Fabrication of Nanoheterostructures Based on ZnO for Photoelectrochemical Water Splitting. Advanced Materials Interfaces, 2017, 4, 1700161.	3.7	30
36	Hematite-based nanocomposites for light-activated applications: Synergistic role of TiO2 and Au introduction. Solar Energy Materials and Solar Cells, 2017, 159, 456-466.	6.2	30

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37	A plasma-assisted approach for the controlled dispersion of CuO aggregates into Î² iron(<scp>iii</scp>) oxide matrices. CrystEngComm, 2014, 16, 8710-8716.	2.6	29
38	SiOxâ€Based Multilayer Barrier Coatings Produced by a Single PECVD Process. Plasma Processes and Polymers, 2009, 6, S665.	3.0	28
39	Toward the Detection of Poisonous Chemicals and Warfare Agents by Functional Mn₃O₄ Nanosystems. ACS Applied Materials & Interfaces, 2018, 10, 12305-12310.	8.0	28
40	WO₃-decorated ZnO nanostructures for light-activated applications. CrystEngComm, 2018, 20, 1282-1290.	2.6	28
41	Optical tweezers in single-molecule experiments. European Physical Journal Plus, 2020, 135, 1.	2.6	28
42	Copperâ^'Silica Nanocomposites Tailored by the Solâ^'Gel Route. Chemistry of Materials, 2005, 17, 1450-1456.	6.7	27
43	Investigation on solâ€“gel silica coatings for the protection of ancient glass: Interaction with glass surface and protection efficiency. Journal of Non-Crystalline Solids, 2008, 354, 2983-2992.	3.1	26
44	Strongly oriented Co3O4 thin films on MgO(100) and MgAl2O4(100) substrates by PE-CVD. CrystEngComm, 2011, 13, 3670.	2.6	26
45	Tailoring Vapor-Phase Fabrication of Mn₃O₄ Nanosystems: From Synthesis to Gas-Sensing Applications. ACS Applied Nano Materials, 2018, 1, 2962-2970.	5.0	26
46	Sensing Nitrogen Mustard Gas Simulant at the ppb Scale via Selective Dual-Site Activation at Au/Mn₃O₄ Interfaces. ACS Applied Materials & Interfaces, 2019, 11, 23692-23700.	8.0	26
47	Growth of Cookie-like Au/NiO Nanoparticles in SiO₂ Solâ€“Gel Films and Their Optical Gas Sensing Properties. Crystal Growth and Design, 2008, 8, 744-749.	3.0	25
48	Vaporâ€Phase Fabrication of Î²â€Iron Oxide Nanopyramids for Lithiumâ€Ion Battery Anodes. ChemPhysChem, 2012, 13, 3798-3801.	2.1	21
49	Interplay of thickness and photoelectrochemical properties in nanostructured Î±-Fe₂O₃ thin films. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 1501-1507.	1.8	21
50	Quantification of Iron (Fe) in Lithium Niobate by Optical Absorption. Applied Spectroscopy, 2011, 65, 216-220.	2.2	20
51	Alteration and corrosion phenomena in Roman submerged glass fragments. Journal of Non-Crystalline Solids, 2004, 337, 136-141.	3.1	19
52	Ironâ€“Titanium Oxide Nanocomposites Functionalized with Gold Particles: From Design to Solar Hydrogen Production. Advanced Materials Interfaces, 2016, 3, 1600348.	3.7	18
53	Engineering Au/MnO₂ hierarchical nanoarchitectures for ethanol electrochemical valorization. Journal of Materials Chemistry A, 2020, 8, 16902-16907.	10.3	18
54	Optofluidic Platform for the Manipulation of Water Droplets on Engineered LiNbO₃ Surfaces. Advanced Materials Interfaces, 2022, 9, .	3.7	18

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55	Sensitizing effects in Ag-Er codoped glasses for optical amplification. , 2004, 5451, 311.		17
56	Tailored synthesis of ZnO:Er(III) nanosystems by a hybrid rf-sputtering/sol-gel route. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2006, 24, 1941-1947.	2.1	17
57	A distributed data acquisition system for signal digitizers with on-line analysis capabilities. , 2017, , .		16
58	Structure and properties of Mn3O4 thin films grown on single crystal substrates by chemical vapor deposition. Materials Chemistry and Physics, 2019, 223, 591-596.	4.0	16
59	Enhanced photocatalytic removal of NOx gases by Î²-Fe2O3/CuO and Î²-Fe2O3/WO3 nanoheterostructures. Chemical Engineering Journal, 2022, 430, 132757.	12.7	16
60	Solâ€“gel deposition of silica films on silicate glasses: Influence of the presence of lead in the glass or in precursor solutions. Journal of Non-Crystalline Solids, 2006, 352, 315-321.	3.1	15
61	Controllable vapor phase fabrication of F:Mn₃O₄thin films functionalized with Ag and TiO₂. CrystEngComm, 2018, 20, 3016-3024.	2.6	15
62	Controlled Surface Modification of ZnO Nanostructures with Amorphous TiO₂ for Photoelectrochemical Water Splitting. Advanced Sustainable Systems, 2019, 3, 1900046.	5.3	15
63	Silicon Photonic Micro-Ring Resonators for Chemical and Biological Sensing: A Tutorial. IEEE Sensors Journal, 2022, 22, 10089-10105.	4.7	15
64	Hydrogen Gas Sensing Performances of p-Type Mn3O4 Nanosystems: The Role of Built-in Mn3O4/Ag and Mn3O4/SnO2 Junctions. Nanomaterials, 2020, 10, 511.	4.1	14
65	Early evidences of vitreous materials in Roman mosaics from Italy: An archaeological and archaeometric integrated study. Journal of Cultural Heritage, 2008, 9, e21-e26.	3.3	13
66	Lithium Niobate Micromachining for the Fabrication of Microfluidic Droplet Generators. Micromachines, 2017, 8, 185.	2.9	13
67	Supported Mn₃O₄ Nanosystems for Hydrogen Production through Ethanol Photoreforming. Langmuir, 2018, 34, 4568-4574.	3.5	13
68	Tailoring iron(<scp>III</scp>) oxide nanomorphology by chemical vapor deposition: Growth and characterization. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 316-322.	1.8	12
69	Novel two-step vapor-phase synthesis of UVâ€“Vis light active Fe2O3/WO3 nanocomposites for phenol degradation. Environmental Science and Pollution Research, 2016, 23, 20350-20359.	5.3	12
70	Mn₃O₄ Nanomaterials Functionalized with Fe₂O₃ and ZnO: Fabrication, Characterization, and Ammonia Sensing Properties. Advanced Materials Interfaces, 2019, 6, 1901239.	3.7	12
71	Quasi-1D Mn₂O₃ Nanostructures Functionalized with First-Row Transition-Metal Oxides as Oxygen Evolution Catalysts. ACS Applied Nano Materials, 2020, 3, 9889-9898.	5.0	12
72	Opto-Microfluidic System for Absorbance Measurements in Lithium Niobate Device Applied to pH Measurements. Sensors, 2020, 20, 5366.	3.8	12

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73	Surface Decoration of Ïµâ€Fe₂O₃ Nanorods by CuO Via a Twoâ€Step CVD/Sputtering Approach**. Chemical Vapor Deposition, 2014, 20, 313-319.	1.3	11
74	Iron doping of lithium niobate by thermal diffusion from thin film: study of the treatment effect. Applied Physics A: Materials Science and Processing, 2011, 104, 453-460.	2.3	10
75	Zirconocene Alkoxides, Promising Precursors for MOCVD of Zirconium Dioxide Thin Films. Chemical Vapor Deposition, 2012, 18, 151-158.	1.3	10
76	LaCoO₃ Nanosystems by a Hybrid CVD/Solâ€“Gel Approach. Journal of Nanoscience and Nanotechnology, 2005, 5, 781-785.	0.9	9
77	High Magnetic Coercivity in Nanostructured Mn3O4 Thin Films Obtained by Chemical Vapor Deposition. ACS Applied Nano Materials, 2019, 2, 1704-1712.	5.0	9
78	Nonlinear diffusion model for annealed proton-exchanged waveguides in zirconium-doped lithium niobate. Applied Optics, 2016, 55, 6559.	2.1	8
79	Chemical optimisation of a solâ€“gel procedure for the development of fluorescence Cu(II) nanosensors. Applied Surface Science, 2007, 253, 7178-7187.	6.1	7
80	MOCVD of TiO₂ thin films from a modified titanium alkoxide precursor. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 1563-1570.	1.8	7
81	Surface Functionalization of Grown-on-Tip ZnO Nanopyramids: From Fabrication to Light-Triggered Applications. ACS Applied Materials & Interfaces, 2019, 11, 15881-15890.	8.0	7
82	Optofluidic Platform Based on Liquid Crystals in X-Cut Lithium Niobate: Thresholdless All-Optical Response. Crystals, 2021, 11, 908.	2.2	7
83	Tailored Co₃O₄-Based Nanosystems: Toward Photocatalysts for Air Purification. ACS Applied Materials & Interfaces, 2021, 13, 44520-44530.	8.0	7
84	Determination of the Dielectrophoretic Force Induced by the Photovoltaic Effect on Lithium Niobate. Micromachines, 2022, 13, 316.	2.9	7
85	Improved photoluminescence properties of sol-gel derived Er3+ doped silica films. Journal of Applied Physics, 2010, 108, 113116.	2.5	6
86	Nanoscale Mn₃O₄ Thin Film Photoelectrodes Fabricated by a Vapor-Phase Route. ACS Applied Energy Materials, 2019, 2, 8294-8302.	5.1	6
87	Purcell effect observation in erbium doped lithium niobate photonic crystal structures. Optics Communications, 2008, 281, 4151-4154.	2.1	5
88	Auâ€“Manganese Oxide Nanostructures by a Plasmaâ€Assisted Process as Electrocatalysts for Oxygen Evolution: A Chemicoâ€Physical Investigation. Advanced Sustainable Systems, 2020, , 2000177.	5.3	5
89	Plasma-Assisted Chemical Vapor Deposition of F-Doped MnO2 Nanostructures on Single Crystal Substrates. Nanomaterials, 2020, 10, 1335.	4.1	5
90	Dual Improvement of Î²â€MnO₂ Oxygen Evolution Electrocatalysts via Combined Substrate Control and Surface Engineering. ChemCatChem, 2020, 12, 5984-5992.	3.7	5

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91	Sol-gel synthesis and characterization of CuOâ€“based nanosystems. Materials Research Society Symposia Proceedings, 2002, 737, 701.	0.1	3
92	Identification of LiNbO3compositions with optimized functional properties for advanced electro-optical devices. , 2004, , .		3
93	A Novel Configuration for Phase-Matched Second-Harmonic Generation in LiNbO$_3$ Waveguides. IEEE Photonics Technology Letters, 2007, 19, 553-555.	2.5	3
94	Chemical Vapor Deposition of Cu<inf>2</inf>O and CuO nanosystems for innovative gas sensors. , 2009, , .		3
95	Opto-Microfluidic Integration of the Bradford Protein Assay in Lithium Niobate Lab-on-a-Chip. Sensors, 2022, 22, 1144.	3.8	3
96	Secondary Ion Mass Spectrometry Study of Erbium Titanium Codiffusion in Lithium Niobate. IEEE Photonics Technology Letters, 2014, 26, 1307-1309.	2.5	2
97	Growth and characterization of Er-doped single crystal lithium niobate fibers. Journal of Applied Physics, 2008, 104, 103114.	2.5	1
98	Stabilized Zirconia-Based Materials for Solid Oxide Fuel Cells (SOFC) obtained by MOCVD and Aerosol-CVD. ECS Transactions, 2009, 25, 805-812.	0.5	1
99	Au Nanoparticle Sub-Monolayers Sandwiched between Sol-Gel Oxide Thin Films. Materials, 2018, 11, 423.	2.9	1
100	Photorefractive bright soliton in erbium doped lithium niobate. , 2006, 6183, 280.		0
101	On the enhancement of Er3+ diffusion in LiNbO3 crystals by Er3+/Ti4+ co-diffusion. Materials Research Bulletin, 2016, 74, 96-97.	5.2	0