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	Silicon Photonic Micro-Ring Resonators for Chemical and Biological Sensing: A Tutorial. IEEE Sensors Journal, 2022, 22, 10089-10105.	4.7	15
2	Enhanced photocatalytic removal of NOx gases by Î²-Fe2O3/CuO and Î²-Fe2O3/WO3 nanoheterostructures. Chemical Engineering Journal, 2022, 430, 132757.	12.7	16
3	Opto-Microfluidic Integration of the Bradford Protein Assay in Lithium Niobate Lab-on-a-Chip. Sensors, 2022, 22, 1144.	3.8	3
4	Determination of the Dielectrophoretic Force Induced by the Photovoltaic Effect on Lithium Niobate. Micromachines, 2022, 13, 316.	2.9	7
5	Optofluidic Platform for the Manipulation of Water Droplets on Engineered LiNbO₃ Surfaces. Advanced Materials Interfaces, 2022, 9, .	3.7	18
6	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
7	Optofluidic Platform Based on Liquid Crystals in X-Cut Lithium Niobate: Thresholdless All-Optical Response. Crystals, 2021, 11, 908.	2.2	7
8	Tailored Co₃O₄-Based Nanosystems: Toward Photocatalysts for Air Purification. ACS Applied Materials & Interfaces, 2021, 13, 44520-44530.	8.0	7
9	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
10	Optical tweezers in single-molecule experiments. European Physical Journal Plus, 2020, 135, 1.	2.6	28
11	Engineering Au/MnO₂ hierarchical nanoarchitectures for ethanol electrochemical valorization. Journal of Materials Chemistry A, 2020, 8, 16902-16907.	10.3	18
12	Plasma-Assisted Chemical Vapor Deposition of F-Doped MnO2 Nanostructures on Single Crystal Substrates. Nanomaterials, 2020, 10, 1335.	4.1	5
13	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
14	Dual Improvement of Î²â€MnO₂ Oxygen Evolution Electrocatalysts via Combined Substrate Control and Surface Engineering. ChemCatChem, 2020, 12, 5984-5992.	3.7	5
15	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
16	Opto-Microfluidic System for Absorbance Measurements in Lithium Niobate Device Applied to pH Measurements. Sensors, 2020, 20, 5366.	3.8	12
17	Nanoscale Mn₃O₄ Thin Film Photoelectrodes Fabricated by a Vapor-Phase Route. ACS Applied Energy Materials, 2019, 2, 8294-8302.	5.1	6
18	Mn₃O₄ Nanomaterials Functionalized with Fe₂O₃ and ZnO: Fabrication, Characterization, and Ammonia Sensing Properties. Advanced Materials Interfaces, 2019, 6, 1901239.	3.7	12

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19	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
20	Controlled Surface Modification of ZnO Nanostructures with Amorphous TiO₂ for Photoelectrochemical Water Splitting. Advanced Sustainable Systems, 2019, 3, 1900046.	5.3	15
21	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
22	High Magnetic Coercivity in Nanostructured Mn3O4 Thin Films Obtained by Chemical Vapor Deposition. ACS Applied Nano Materials, 2019, 2, 1704-1712.	5.0	9
23	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
24	Toward the Detection of Poisonous Chemicals and Warfare Agents by Functional Mn₃O₄ Nanosystems. ACS Applied Materials & Interfaces, 2018, 10, 12305-12310.	8.0	28
25	Supported Mn₃O₄ Nanosystems for Hydrogen Production through Ethanol Photoreforming. Langmuir, 2018, 34, 4568-4574.	3.5	13
26	WO₃-decorated ZnO nanostructures for light-activated applications. CrystEngComm, 2018, 20, 1282-1290.	2.6	28
27	Controllable vapor phase fabrication of F:Mn₃O₄thin films functionalized with Ag and TiO₂. CrystEngComm, 2018, 20, 3016-3024.	2.6	15
28	Tailoring Vapor-Phase Fabrication of Mn₃O₄ Nanosystems: From Synthesis to Gas-Sensing Applications. ACS Applied Nano Materials, 2018, 1, 2962-2970.	5.0	26
29	Au Nanoparticle Sub-Monolayers Sandwiched between Sol-Gel Oxide Thin Films. Materials, 2018, 11, 423.	2.9	1
30	Vapor Phase Fabrication of Nanoheterostructures Based on ZnO for Photoelectrochemical Water Splitting. Advanced Materials Interfaces, 2017, 4, 1700161.	3.7	30
31	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
32	Lithium Niobate Micromachining for the Fabrication of Microfluidic Droplet Generators. Micromachines, 2017, 8, 185.	2.9	13
33	A distributed data acquisition system for signal digitizers with on-line analysis capabilities. , 2017, , .		16
34	Numerical and Experimental Study of Optoelectronic Trapping on Iron-Doped Lithium Niobate Substrate. Crystals, 2016, 6, 123.	2.2	30
35	Advances in photocatalytic NO_x abatement through the use of Fe₂O₃/TiO₂ nanocomposites. RSC Advances, 2016, 6, 74878-74885.	3.6	39
36	Nonlinear diffusion model for annealed proton-exchanged waveguides in zirconium-doped lithium niobate. Applied Optics, 2016, 55, 6559.	2.1	8

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37	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
38	Plasmaâ€Assisted Fabrication of Fe₂O₃ï£¿Co₃O₄ Nanomaterials as Anodes for Photoelectrochemical Water Splitting. Plasma Processes and Polymers, 2016, 13, 191-200.	3.0	39
39	Ironâ€“Titanium Oxide Nanocomposites Functionalized with Gold Particles: From Design to Solar Hydrogen Production. Advanced Materials Interfaces, 2016, 3, 1600348.	3.7	18
40	On the enhancement of Er3+ diffusion in LiNbO3 crystals by Er3+/Ti4+ co-diffusion. Materials Research Bulletin, 2016, 74, 96-97.	5.2	0
41	Optical waveguides in lithium niobate: Recent developments and applications. Applied Physics Reviews, 2015, 2, .	11.3	197
42	Fe₂O₃â€“TiO₂ Nanoâ€heterostructure Photoanodes for Highly Efficient Solar Water Oxidation. Advanced Materials Interfaces, 2015, 2, 1500313.	3.7	103
43	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
44	Fe₂O₃â€“TiO₂nanosystems by a hybrid PE-CVD/ALD approach: controllable synthesis, growth mechanism, and photocatalytic properties. CrystEngComm, 2015, 17, 6219-6226.	2.6	37
45	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
46	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
47	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
48	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
49	Secondary Ion Mass Spectrometry Study of Erbium Titanium Codiffusion in Lithium Niobate. IEEE Photonics Technology Letters, 2014, 26, 1307-1309.	2.5	2
50	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
51	Solar H2generation via ethanol photoreforming on Îµ-Fe2O3nanorod arrays activated by Ag and Au nanoparticles. RSC Advances, 2014, 4, 32174.	3.6	40
52	Au/Îµ-Fe₂O₃ Nanocomposites as Selective NO₂ Gas Sensors. Journal of Physical Chemistry C, 2014, 118, 11813-11819.	3.1	81
53	Charge sensor and particle trap based on z-cut lithium niobate. Applied Physics Letters, 2013, 103, .	3.3	58
54	Highly reduced iron-doped lithium niobate for optoelectronic tweezers. Applied Physics B: Lasers and Optics, 2013, 113, 191-197.	2.2	32

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55	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
56	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
57	Controlled synthesis and properties of Î²-Fe2O3 nanosystems functionalized with Ag or Pt nanoparticles. CrystEngComm, 2012, 14, 6469.	2.6	51
58	Vaporâ€Phase Fabrication of Î²â€Iron Oxide Nanopyramids for Lithiumâ€Ion Battery Anodes. ChemPhysChem, 2012, 13, 3798-3801.	2.1	21
59	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
60	Ag/ZnO nanomaterials as high performance sensors for flammable and toxic gases. Nanotechnology, 2012, 23, 025502.	2.6	48
61	CuO/ZnO Nanocomposite Gas Sensors Developed by a Plasmaâ€Assisted Route. ChemPhysChem, 2012, 13, 2342-2348.	2.1	55
62	Zirconocene Alkoxides, Promising Precursors for MOCVD of Zirconium Dioxide Thin Films. Chemical Vapor Deposition, 2012, 18, 151-158.	1.3	10
63	Strongly oriented Co3O4 thin films on MgO(100) and MgAl2O4(100) substrates by PE-CVD. CrystEngComm, 2011, 13, 3670.	2.6	26
64	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
65	Quantification of Iron (Fe) in Lithium Niobate by Optical Absorption. Applied Spectroscopy, 2011, 65, 216-220.	2.2	20
66	Zirconium-doped lithium niobate: photorefractive and electro-optical properties as a function of dopant concentration. Optical Materials Express, 2011, 1, 270.	3.0	31
67	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
68	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
69	Improved photoluminescence properties of sol-gel derived Er3+ doped silica films. Journal of Applied Physics, 2010, 108, 113116.	2.5	6
70	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
71	Urchin-like ZnO nanorod arrays for gas sensing applications. CrystEngComm, 2010, 12, 3419.	2.6	90
72	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

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73	Chemical Vapor Deposition of Cu<inf>2</inf>O and CuO nanosystems for innovative gas sensors. , 2009, , .		3
74	Rational Design of Ag/TiO₂ Nanosystems by a Combined RFâ€Sputtering/Solâ€Gel Approach. ChemPhysChem, 2009, 10, 3249-3259.	2.1	62
75	SiOxâ€Based Multilayer Barrier Coatings Produced by a Single PECVD Process. Plasma Processes and Polymers, 2009, 6, S665.	3.0	28
76	Luminescent Properties of Eu-Doped Lanthanum Oxyfluoride Solâ^'Gel Thin Films. Journal of Physical Chemistry C, 2009, 113, 14429-14434.	3.1	44
77	Sol-Gel Based Vertical Optical Microcavities with Quantum Dot Defect Layers. Advanced Functional Materials, 2008, 18, 3772-3779.	14.9	45
78	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
79	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
80	Purcell effect observation in erbium doped lithium niobate photonic crystal structures. Optics Communications, 2008, 281, 4151-4154.	2.1	5
81	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
82	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
83	Growth and characterization of Er-doped single crystal lithium niobate fibers. Journal of Applied Physics, 2008, 104, 103114.	2.5	1
84	A Novel Configuration for Phase-Matched Second-Harmonic Generation in LiNbO$_3$ Waveguides. IEEE Photonics Technology Letters, 2007, 19, 553-555.	2.5	3
85	Thiolâ€ene Hybrid Organic/Inorganic Nanostructured Coatings Based on Thiolâ€Functionalized Zirconium Oxoclusters. Macromolecular Chemistry and Physics, 2007, 208, 2560-2568.	2.2	32
86	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
87	Er-Coupled Si Nanocluster Waveguide. IEEE Journal of Selected Topics in Quantum Electronics, 2006, 12, 1607-1617.	2.9	42
88	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
89	Photorefractive bright soliton in erbium doped lithium niobate. , 2006, 6183, 280.		0
90	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

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91	LaCoO₃ Nanosystems by a Hybrid CVD/Solâ€“Gel Approach. Journal of Nanoscience and Nanotechnology, 2005, 5, 781-785.	0.9	9
92	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
93	PbS-Doped Mesostructured Silica Films with High Optical Nonlinearity. Chemistry of Materials, 2005, 17, 4965-4970.	6.7	52
94	Copperâ^'Silica Nanocomposites Tailored by the Solâ^'Gel Route. Chemistry of Materials, 2005, 17, 1450-1456.	6.7	27
95	Sensitizing effects in Ag-Er codoped glasses for optical amplification. , 2004, 5451, 311.		17
96	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
97	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
98	Alteration and corrosion phenomena in Roman submerged glass fragments. Journal of Non-Crystalline Solids, 2004, 337, 136-141.	3.1	19
99	Identification of LiNbO3compositions with optimized functional properties for advanced electro-optical devices. , 2004, , .		3
100	A solâ€“gel approach to nanophasic copper oxide thin films. Thin Solid Films, 2003, 442, 48-52.	1.8	188
101	Sol-gel synthesis and characterization of CuOâ€“based nanosystems. Materials Research Society Symposia Proceedings, 2002, 737, 701.	0.1	3