

# Stefano Enzo

## List of Publications by Year in descending order

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95  
papers

2,121  
citations

236612

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98  
all docs

98  
docs citations

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times ranked

2656  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sorption processes and XRD analysis of a natural zeolite exchanged with Pb <sup>2+</sup> , Cd <sup>2+</sup> and Zn <sup>2+</sup> cations. Journal of Hazardous Materials, 2008, 156, 428-434.	6.5	138
2	Anatase-to-Rutile Phase Transition in TiO <sub>2</sub> Nanoparticles Irradiated by Visible Light. Journal of Physical Chemistry C, 2013, 117, 7850-7857.	1.5	111
3	XRD, FTIR, and thermal analysis of bauxite ore-processing waste (red mud) exchanged with heavy metals. Clays and Clay Minerals, 2008, 56, 461-469.	0.6	96
4	A new calibration of the XRD technique for the study of archaeological burned human remains. Journal of Archaeological Science, 2008, 35, 2171-2178.	1.2	95
5	A multi-technique approach by XRD, XRF, FT-IR to characterize the diagenesis of dinosaur bones from Spain. Palaeogeography, Palaeoclimatology, Palaeoecology, 2011, 310, 92-107.	1.0	79
6	Study of sorption processes and FT-IR analysis of arsenate sorbed onto red muds (a bauxite ore) Tj ETQqO 0 0 rgBT /Overlock 10 Tf 50 5	6.5	74
7	Hexagonal close packed nickel powder: Synthesis, structural characterization and thermal behavior. Materials Letters, 1988, 7, 47-50.	1.3	66
8	An X-ray Diffraction (XRD) and X-ray Fluorescence (XRF) investigation in human and animal fossil bones from Holocene to Middle Triassic. Journal of Archaeological Science, 2009, 36, 1857-1868.	1.2	65
9	The Potential of X-ray Diffraction in the Analysis of Burned Remains from Forensic Contexts*. Journal of Forensic Sciences, 2009, 54, 534-539.	0.9	60
10	Is X-ray diffraction able to distinguish between animal and human bones?. Journal of Archaeological Science, 2013, 40, 778-785.	1.2	55
11	Remarkable hydrogen storage properties of MgH <sub>2</sub> doped with VNbO <sub>5</sub> . Physical Chemistry Chemical Physics, 2018, 20, 4100-4108.	1.3	54
12	Mesostructured self-assembled titania films for photovoltaic applications. Microporous and Mesoporous Materials, 2006, 88, 304-311.	2.2	48
13	Effect of the dopant selection (Er, Eu, Nd or Ce) and its quantity on the formation of yttrium aluminum garnet nanopowders. Optical Materials, 2008, 31, 261-267.	1.7	46
14	Understanding the Crystallinity Indices Behavior of Burned Bones and Teeth by ATR-IR and XRD in the Presence of Bioapatite Mixed with Other Phosphate and Carbonate Phases. International Journal of Spectroscopy, 2016, 2016, 1-9.	1.4	41
15	A study by thermal treatment and X-ray powder diffraction on burnt fragmented bones from tombs II, IV and IX belonging to the hypogeic necropolis of Sa Figuà near Ittiri, Sassari (Sardinia, Italy). Journal of Archaeological Science, 2007, 34, 1731-1737.	1.2	40
16	Advances in the structure and microstructure determination of yttrium silicates using the Rietveld method. Journal of Solid State Chemistry, 2005, 178, 1526-1532.	1.4	39
17	A one-step solvothermal route for the synthesis of nanocrystalline anatase TiO <sub>2</sub> doped with lanthanide ions. Journal of Solid State Chemistry, 2006, 179, 2452-2457.	1.4	35
18	Co-precipitation synthesis of Nd:YAG nano-powders: the effect of Nd dopant addition with thermal treatment. Journal of Materials Science, 2007, 42, 4418-4427.	1.7	35

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19	Self-Organized Nanocrystalline Organosilicates in Organic-Inorganic Hybrid Films. <i>Advanced Materials</i> , 2009, 21, 1732-1736.	11.1	33
20	Bifunctional catalysts from pillared clays: Vapour phase conversion of propene to acetone catalyzed by iron and ruthenium containing aluminum pillared bentonites. <i>Journal of Molecular Catalysis</i> , 1994, 92, 201-215.	1.2	31
21	Hafnia sol-gel films synthesized from HfCl <sub>4</sub> : Changes of structure and properties with the firing temperature. <i>Journal of Sol-Gel Science and Technology</i> , 2007, 42, 89-93.	1.1	30
22	Co-precipitation synthesis of neodymium-doped yttrium aluminium oxides nanopowders: Quantitative phase investigation as a function of joint isothermal treatment conditions and neodymium content. <i>Optical Materials</i> , 2007, 29, 1240-1243.	1.7	27
23	Synthesis, structural investigation and luminescence spectroscopy of nanocrystalline Gd <sub>3</sub> Ga <sub>5</sub> O <sub>12</sub> doped with lanthanide ions. <i>Journal of Alloys and Compounds</i> , 2008, 451, 553-556.	2.8	27
24	Sol-Gel Processing of Bi <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> and Bi <sub>2</sub> Ti <sub>4</sub> O <sub>11</sub> Films with Photocatalytic Activity. <i>Journal of the American Ceramic Society</i> , 2010, 93, 2897-2902.	1.9	27
25	Structural and kinetic investigation of the hydride composite Ca(BH <sub>4</sub> ) <sub>2</sub> + MgH <sub>2</sub> system doped with NbF <sub>5</sub> for solid-state hydrogen storage. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 27328-27342.	1.3	25
26	Boron oxynitride two-colour fluorescent dots and their incorporation in a hybrid organic-inorganic film. <i>Journal of Colloid and Interface Science</i> , 2020, 560, 398-406.	5.0	24
27	Evaluation of the anatase/rutile phase composition influence on the photocatalytic performances of mesoporous TiO <sub>2</sub> powders. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 14483-14491.	3.8	23
28	A Mechanochemical-Assisted Oxidation of Amines to Carbonyl Compounds and Nitriles. <i>European Journal of Organic Chemistry</i> , 2017, 2017, 5519-5526.	1.2	23
29	Correlative Analysis of the Crystallization of Sol-Gel Dense and Mesoporous Anatase Titania Films. <i>Journal of Physical Chemistry C</i> , 2010, 114, 22385-22391.	1.5	22
30	Structural investigations and luminescence properties of nanocrystalline europium-doped yttrium silicates prepared by a sol-gel technique. <i>Optical Materials</i> , 2007, 29, 585-592.	1.7	21
31	Kinetics of mechanically induced anatase-to-rutile phase transformations under inelastic impact conditions. <i>Acta Materialia</i> , 2010, 58, 3798-3804.	3.8	21
32	Organometallic chemometrics. <i>Computers &amp; Chemistry</i> , 1984, 8, 161-168.	1.2	20
33	Role of aluminum chloride on the reversible hydrogen storage properties of the Li-N-H system. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 13506-13517.	3.8	20
34	Structural investigation of the amorphization reaction by mechanical alloying of the Mo <sub>50</sub> Ni <sub>50</sub> system. <i>Journal of the Less Common Metals</i> , 1989, 154, 177-186.	0.9	19
35	Formation and crystallization of amorphous Ni <sub>3</sub> -Ti powders prepared by mechanical alloying. <i>Journal of the Less Common Metals</i> , 1988, 145, 301-308.	0.9	18
36	Morphology and Luminescence of Nanocrystalline Nb <sub>2</sub> O <sub>5</sub> Doped with Eu <sup>3+</sup> . <i>Journal of Nanomaterials</i> , 2007, 2007, 1-5.	1.5	18

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37	Formation of cerium titanate, CeTi <sub>2</sub> O <sub>6</sub> , in sol-gel films studied by XRD and FAR infrared spectroscopy. Journal of Sol-Gel Science and Technology, 2009, 52, 356-361.	1.1	18
38	Magnesium Imide: Synthesis and Structure Determination of an Unconventional Alkaline Earth Imide from Decomposition of Magnesium Amide. Inorganic Chemistry, 2011, 50, 1116-1122.	1.9	18
39	Mesoporous Titania Powders: The Role of Precursors, Ligand Addition and Calcination Rate on Their Morphology, Crystalline Structure and Photocatalytic Activity. Nanomaterials, 2014, 4, 583-598.	1.9	18
40	Reduction of grain size in metals and metal mixtures processed by ball milling. Scripta Materialia, 2014, 88, 9-12.	2.6	18
41	A structural approach in the study of bones: fossil and burnt bones at nanosize scale. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	18
42	Role of solid-state structure in propene hydrogenation with nickel catalysts. Journal of the Chemical Society, Faraday Transactions, 1990, 86, 739.	1.7	17
43	Luminescence Properties of Neodymium-Doped Yttrium Aluminium Garnet Obtained by the Co-Precipitation Method Combined with the Mechanical Process. Solid State Phenomena, 2005, 106, 7-16.	0.3	17
44	Cremation practices coexisting at the S'illot des Porros Necropolis during the Second Iron Age in the Balearic Islands (Spain). HOMO- Journal of Comparative Human Biology, 2010, 61, 440-452.	0.3	15
45	Kinetic improvement on the CaH <sub>2</sub> -catalyzed Mg(NH <sub>2</sub> ) <sub>2</sub> + 2LiH system. Journal of Alloys and Compounds, 2015, 645, S284-S287.	2.8	15
46	Advanced Synthesis on Lead-Free K <sub>x</sub> Na <sub>(1-x)</sub> NbO <sub>3</sub> Piezoceramics for Medical Imaging Applications. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1700896.	0.8	15
47	X-ray scattering structural investigation of Pt and Pt-Sn catalysts supported on nylon. Journal of the Chemical Society Faraday Transactions I, 1985, 81, 321.	1.0	14
48	An alternative sol-gel route for the preparation of thin films in CeO <sub>2</sub> -TiO <sub>2</sub> binary system. Thin Solid Films, 2010, 518, 1653-1657.	0.8	14
49	Structural investigation and luminescence of nanocrystalline lanthanide doped NaNbO <sub>3</sub> and Na <sub>0.5</sub> K <sub>0.5</sub> NbO <sub>3</sub> . Journal of Solid State Chemistry, 2012, 196, 1-10.	1.4	14
50	Structural study of a new B-rich phase obtained by partial hydrogenation of 2NaH+MgB <sub>2</sub> . International Journal of Hydrogen Energy, 2013, 38, 10479-10484.	3.8	14
51	<sup>31</sup> P-NMR Spectroscopy of Tricalcium Phosphate Interferes with the Assessment of Crystallinity in Burned Skeletal Remains. Journal of Spectroscopy, 2018, 2018, 1-10.	0.6	14
52	Formation of Monoclinic Hafnium Titanate Thin Films Via the Sol-Gel Method. Journal of the American Ceramic Society, 2008, 91, 2112-2116.	1.9	13
53	Structural and thermodynamic aspects of glass formation in Cu-Ti-H: role of hydrogen in mechanical alloying. Journal of Non-Crystalline Solids, 1993, 156-158, 527-531.	1.5	12
54	A structure investigation of Pt-Co bimetallic catalysts fabricated by mechanical alloying. Materials Chemistry and Physics, 2009, 114, 227-234.	2.0	12

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55	X-ray Diffraction and Thermal Analysis of Bauxite Ore-Processing Waste (Red Mud) Exchanged with Arsenate and Phosphate. <i>Clays and Clay Minerals</i> , 2011, 59, 189-199.	0.6	12
56	Mesostructural refinement in the early stages of mechanical alloying. <i>Scripta Materialia</i> , 2014, 83, 49-52.	2.6	12
57	Boron Nitride-Titania Mesoporous Film Heterostructures. <i>Langmuir</i> , 2021, 37, 5348-5355.	1.6	12
58	Tuning the phase transition of ZnO thin films through lithography: an integrated bottom-up and top-down processing. <i>Journal of Synchrotron Radiation</i> , 2015, 22, 165-171.	1.0	11
59	Vapour phase propene hydroformylation catalyzed by the Rh/Al system on silica. <i>Journal of Molecular Catalysis</i> , 1993, 80, 105-116.	1.2	10
60	Anthropological and physicochemical investigation of the burnt remains of Tomb IX in the Sa Figù hypogeal necropolis (Sassari, Italy) Early Bronze Age. <i>International Journal of Osteoarchaeology</i> , 2008, 18, 167-177.	0.6	10
61	Comparison of the thermochemical and mechanochemical transformations in the $2\text{NaNH}_2$ - $\text{MgH}_2$ system. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 1829-1835.	3.8	10
62	Ball Milling of Cu-Ti-H: Amorphization Reactions and Hydride Stability. <i>Materials Science Forum</i> , 1992, 88-90, 771-778.	0.3	9
63	Evidence of fractals in the preliminary stages of amorphization by mechanical alloying. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1994, 178, 29-34.	2.6	9
64	In situ synchrotron radiation powder X-ray diffraction study of the $2\text{LiNH}_2+\text{LiH}+\text{KBH}_4$ system. <i>Journal of Alloys and Compounds</i> , 2013, 580, S278-S281.	2.8	8
65	Crystal structure solution of $\text{KMg}(\text{ND})(\text{ND}_2)$ : An ordered mixed amide/imide compound. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 868-876.	3.8	8
66	Defect-assisted synthesis of magneto-plasmonic silver-spinel ferrite heterostructures in a flower-like architecture. <i>Scientific Reports</i> , 2020, 10, 17015.	1.6	8
67	As(III, V) Uptake from Nanostructured Iron Oxides and Oxyhydroxides: The Complex Interplay between Sorbent Surface Chemistry and Arsenic Equilibria. <i>Nanomaterials</i> , 2022, 12, 326.	1.9	8
68	Extended x-ray-absorption fine-structure study of the annealing effect on glassy $\text{Pd}_{76}\text{B}_{24}$ : Comparison with x-ray diffraction and modeling results. <i>Physical Review B</i> , 1987, 36, 4734-4741.	1.1	7
69	X-ray analysis of microstructure in Au-Fe melt spun alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2003, 262, 136-141.	1.0	7
70	Structural and thermal investigation of gadolinium gallium mixed oxides obtained by coprecipitation: Observation of a new metastable phase. <i>Journal of Solid State Chemistry</i> , 2005, 178, 2301-2305.	1.4	7
71	Elemental investigation on Spanish dinosaur bones by x-ray fluorescence. <i>Physica Scripta</i> , 2013, 88, 015802.	1.2	7
72	New data on the presence of celestite into fossil bones from the uppermost Cretaceous Mol del Bar 1 site (Spain) and an alternative hypothesis on its origin. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2016, 119, 41-49.	1.5	7

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73	Processing Optimization and Toxicological Evaluation of Lead-Free Piezoceramics: A KNN-Based Case Study. <i>Materials</i> , 2021, 14, 4337.	1.3	7
74	Chemistry of [Ru <sub>3</sub> O <sub>2</sub> (NH <sub>3</sub> ) <sub>14</sub> ]Cl <sub>6</sub> (ruthenium red) intercalated in a smectite clay: thermal behaviour, reactivity with CO and CO/H <sub>2</sub> , catalytic activity. <i>Journal of Molecular Catalysis</i> , 1991, 67, 295-307.	1.2	6
75	Phase Analysis in Materials Prepared by Mechanical Alloying. <i>Key Engineering Materials</i> , 1993, 81-83, 49-58.	0.4	6
76	X-ray diffraction and x-ray photoelectron spectroscopy study of the Ru-Cu/SiO <sub>2</sub> system prepared by low temperature reduction: Occurrence of a metastable amorphous or nanocrystalline phase. <i>Journal of Materials Research</i> , 1996, 11, 325-331.	1.2	6
77	XRF investigation on skeletal remains from King Peter III of Aragon (1239-1285 A.D.) and Queen Blanche of Anjou (1280-1310 A.D.). <i>Applied Physics A: Materials Science and Processing</i> , 2014, 114, 647-653.	1.1	6
78	Kinetics and hydrogen storage performance of Li-Mg-N-H systems doped with Al and AlCl <sub>3</sub> . <i>Journal of Alloys and Compounds</i> , 2018, 765, 635-643.	2.8	6
79	Effects of Thermal Treatment on the Structure of Eu:YAG Nanopowder. <i>Solid State Phenomena</i> , 2007, 128, 107-114.	0.3	5
80	Local Piezoelectric Behavior of Potassium Sodium Niobate Prepared by a Facile Synthesis via Water Soluble Precursors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1700921.	0.8	5
81	Highly ordered mesoporous magnesium niobate high- $\epsilon$ dielectric ceramic: synthesis, structural/mechanical characterization and thermal stability. <i>Journal of Materials Chemistry C</i> , 2013, 1, 4948.	2.7	4
82	New insights about the presence of celestite into fossil bones from Mol <sup>del</sup> Bar <sup>3</sup> 1 site (Isona i Conca) Tj ETQq0 0 0 rgBT /Overlock 10	1.1	4
83	Influence of temperature on the mechanical alloying of Cu-Nb powder mixtures. <i>Chemical Physics Letters</i> , 2015, 639, 23-28.	1.2	4
84	Neutron Diffraction Studies of the Amorphisation Reaction in some Titanium-Based Alloys. <i>Key Engineering Materials</i> , 1993, 81-83, 115-120.	0.4	3
85	Diffraction of Amorphous and Nanocrystalline Alloys Prepared by Solid State Reactions. <i>Materials Science Forum</i> , 1998, 269-272, 363-372.	0.3	3
86	An electrochemical investigation of the interaction between the superoxide ion and cations of group 2a in aqueous solutions. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1988, 246, 155-163.	0.3	2
87	Surface area effects on the early stages of the mechanical alloying of Ag <sub>50</sub> Cu <sub>50</sub> powder mixtures. <i>Journal of Alloys and Compounds</i> , 2013, 581, 298-302.	2.8	2
88	A mechanochemical route for the synthesis of VNbO <sub>5</sub> and its structural re-investigation using structure solution from powder diffraction data. <i>Dalton Transactions</i> , 2019, 48, 10986-10995.	1.6	2
89	Solvent-Free Mechanochemical Approach towards Thiospinel MgCr <sub>2</sub> S <sub>4</sub> as a Potential Electrode for Post-Lithium Ion Batteries. <i>Batteries</i> , 2020, 6, 43.	2.1	2
90	MgNb <sub>2</sub> O <sub>6</sub> Modified K <sub>0.5</sub> Na <sub>0.5</sub> NbO <sub>3</sub> Piezoceramics: Scalable Processing, Structural Distortion and Complex Impedance at Resonance. <i>ChemistryOpen</i> , 2021, 10, 798-805.	0.9	2

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91	New insights into the thermal desorption of the 2LiNH <sub>2</sub> +4LiBH <sub>4</sub> +LiH mixture. International Journal of Hydrogen Energy, 2014, 39, 17075-17082.	3.8	1
92	Processing, phase evolution and electrical properties of lead free KNN-BF-CuO eco-piezoceramic from mechanochemically activated precursors. Open Ceramics, 2022, 9, 100247.	1.0	1
93	Front Cover: A Mechanochemical-Assisted Oxidation of Amines to Carbonyl Compounds and Nitriles (Eur. J. Org. Chem. 37/2017). European Journal of Organic Chemistry, 2017, 2017, 5421-5421.	1.2	0
94	<i>In situ</i> synchrotron radiation investigation of V <sub>2</sub> O <sub>5</sub> -Nb <sub>2</sub> O <sub>5</sub> metastable compounds: transformational kinetics at high temperatures with a new structural solution for the orthorhombic V <sub>4</sub> Nb <sub>20</sub> O <sub>60</sub> phase. Dalton Transactions, 2020, 49, 17584-17593.	1.6	0
95	A structural approach in the study of bones: fossil and burnt bones at nanosize scale. , 2017, , 67-78.		0