# Francesco Enrichi

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 104 papers | 1,995 citations | 218381 26 h-index | 301761 39 g-index |
| 105 all docs | 105 docs citations | 105 times ranked | 2634 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Optical properties of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"><mml:mrow><mml:mi mathvariant="bold">T</mml:mi><mml:msup><mml:mi mathvariant="bold">b</mml:mi><mml:mrow><mml:mn>3</mml:mn><mml:mo>+</mml:mo></mml:mrow></mml:msup><mml:mo linebreak="goodbreak" linebreakstyle="after">/</mml:mo><mml:mi mathvariant="bold">Y</mml:mi><mml:msup><mml:mi mathvariant="bold">b</mml:mi><mml:mrow><mml:mn>3</mml:mn><mml:mo>+</mml:mo></mml:mrow></mml:msup></mml:mrow> | 1.7 | 3 |
| 2 | Comparison of energy transfer between Terbium and Ytterbium ions in glass and glass ceramic: Application in photovoltaic. Solar Energy Advances, 2022, 2, 100012. | 1.2 | 0 |
| 3 | Role of PSS-based assemblies in stabilization of Eu and Sm luminescent complexes and their thermoresponsive luminescence. Colloids and Surfaces B: Biointerfaces, 2022, 217, 112664. | 2.5 | 6 |
| 4 | Theoretical and Experimental Analysis for Cleaning Ice Cores from EstisolTM 140 Drill Liquid. Applied Sciences (Switzerland), 2021, 11, 3830. | 1.3 | 2 |
| 5 | Ag-sensitized Tb3+/Yb3+ codoped silica-zirconia glasses and glass-ceramics: Systematic and detailed investigation of the broadband energy-transfer and downconversion processes. Ceramics International, 2021, 47, 17939-17949. | 2.3 | 9 |
| 6 | Opportunities from Doping of Nonâ€Critical Metal Oxides in Last Generation Lightâ€Conversion Devices. Advanced Energy Materials, 2021, 11, 2101041. | 10.2 | 29 |
| 7 | Ultraviolet to near infrared down-conversion in CaF2:Nd3+/Yb3+/Li+ phosphors. Journal of Luminescence, 2021, 238, 118241. | 1.5 | 7 |
| 8 | Luminescent lanthanide complexes with phosphoramide and arylphosphonic diamide ligands. Chemical Papers, 2020, 74, 3693-3704. | 1.0 | 10 |
| 9 | Solar cells' evolution and perspectives: a short review. , 2020, , 1-32. | | 9 |
| 10 | Glass ceramics for frequency conversion. , 2020, , 391-414. | | 5 |
| 11 | Ag-Sensitized NIR-Emitting Yb3+-Doped Glass-Ceramics. Applied Sciences (Switzerland), 2020, 10, 2184. | 1.3 | 10 |
| 12 | Investigation on the Luminescence Properties of InMO<sub>4</sub> (M = V<sup>5+</sup>,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 307 Earth Ions. ACS Omega, 2020, 5, 2148-2158. | 1.6 | 24 |
| 13 | Comparison between glass and glass-ceramic silica-hafnia matrices on the down-conversion efficiency of Tb3+/Yb3+ rare earth ions. Optical Materials, 2019, 87, 102-106. | 1.7 | 19 |
| 14 | Rare-earth doped glasses and light managing in solar cells. Journal of Physics: Conference Series, 2019, 1221, 012028. | 0.3 | 5 |
| 15 | Tuning ZnO nanorods photoluminescence through atmospheric plasma treatments. APL Materials, 2019, 7, . | 2.2 | 20 |
| 16 | Dual red-NIR luminescent Eu Yb heterolanthanide nanoparticles as promising basis for cellular imaging and sensing. Materials Science and Engineering C, 2019, 105, 110057. | 3.8 | 12 |
| 17 | Mercaptosilane-Passivated CuInS2 Quantum Dots for Luminescence Thermometry and Luminescent Labels. ACS Applied Nano Materials, 2019, 2, 2426-2436. | 2.4 | 26 |
| 18 | Luminescent copper(I) coordination polymer with 1-methyl-1H-benzotriazole, iodide and acetonitrile as ligands. Inorganic Chemistry Communication, 2019, 102, 141-146. | 1.8 | 13 |

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|---|---|---|---|
| 19 | Impact of Oxalate Ligand in Co-Precipitation Route on Morphological Properties and Phase Constitution of Undoped and Rh-Doped BaTiO3 Nanoparticles. Nanomaterials, 2019, 9, 1697. | 1.9 | 8 |
| 20 | Control of silver clustering for broadband Er3+ luminescence sensitization in Er and Ag co-implanted silica. Journal of Luminescence, 2018, 197, 104-111. | 1.5 | 27 |
| 21 | Ultra-small dye-doped silica nanoparticles via modified sol-gel technique. Journal of Nanoparticle Research, 2018, 20, 117. | 0.8 | 18 |
| 22 | Green-emitting manganese (II) complexes with phosphoramide and phenylphosphonic diamide ligands. Inorganic Chemistry Communication, 2018, 92, 145-150. | 1.8 | 38 |
| 23 | The conjugate base of malonaldehyde as antenna-ligand towards trivalent europium and terbium ions. Chemical Papers, 2018, 72, 809-819. | 1.0 | 2 |
| 24 | Plasmonic enhanced solar cells: Summary of possible strategies and recent results. Renewable and Sustainable Energy Reviews, 2018, 82, 2433-2439. | 8.2 | 134 |
| 25 | Visible to NIR downconversion process in Tb3+-Yb3+ codoped silica-hafnia glass and glass-ceramic sol-gel waveguides for solar cells. Journal of Luminescence, 2018, 193, 44-50. | 1.5 | 49 |
| 26 | Ag-Sensitized Yb3+ Emission in Glass-Ceramics. Micromachines, 2018, 9, 380. | 1.4 | 10 |
| 27 | Design of Carbon Dots for Metal-free Photoredox Catalysis. ACS Applied Materials & Interfaces, 2018, 10, 40560-40567. | 4.0 | 79 |
| 28 | Luminescent europium(<scp>iii</scp>) complexes containing an electron rich 1,2,3-triazolyl-pyridyl ligand. New Journal of Chemistry, 2018, 42, 11064-11072. | 1.4 | 3 |
| 29 | Ag nanoaggregates as efficient broadband sensitizers for Tb3+ ions in silica-zirconia ion-exchanged sol-gel glasses and glass-ceramics. Optical Materials, 2018, 84, 668-674. | 1.7 | 14 |
| 30 | Role of Ag multimers as broadband sensitizers in Tb3+/Yb3+ co-doped glass-ceramics. , 2018, , . | | 1 |
| 31 | State-of-the-art developments in metal and carbon-based semiconducting nanomaterials: applications and functions in spintronics, nanophotonics, and nanomagnetics. Advances in Manufacturing, 2017, 5, 105-119. | 3.2 | 5 |
| 32 | Luminescent Eu-doped GdVO4 nanocrystals as optical markers for anti-counterfeiting purposes. Chemical Papers, 2017, 71, 149-159. | 1.0 | 8 |
| 33 | Light management in solar cells: Recent advances. , 2017, , . | | 2 |
| 34 | Study of Eu3+ and Tm3+ substitution effects in solâ€“gel fabricated calcium hydroxyapatite. Journal of Sol-Gel Science and Technology, 2017, 81, 261-267. | 1.1 | 13 |
| 35 | Rare Earth Ions Doped Down-conversion Materials for Third Generation Photovoltaic Solar Cells. , 2017, , . | | 1 |
| 36 | Enhancing the absorption cross section of rare earth by silver metallic nanoparticles. , 2017, , . | | 0 |

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|---|---|---|---|
| 37 | Tb3+/Yb3+ Activated Silica-Hafnia Glass and Glass Ceramics to Improve the Efficiency of Photovoltaic Solar Cells. Lecture Notes in Electrical Engineering, 2016, , 475-482. | 0.3 | 0 |
| 38 | Silver doping of silica-hafnia waveguides containing Tb 3+ /Yb 3+ rare earths for downconversion in PV solar cells. Optical Materials, 2016, 60, 264-269. | 1.7 | 28 |
| 39 | The conjugate base of methyl 3-oxobutanoate as an antenna ligand in visible-emitting photoluminescent lanthanide complexes. RSC Advances, 2016, 6, 32727-32739. | 1.7 | 4 |
| 40 | Energy transfer in color-tunable water-dispersible Tbâ€“Eu codoped CaF<sub>2</sub> nanocrystals. Journal of Materials Chemistry C, 2016, 4, 1906-1913. | 2.7 | 40 |
| 41 | Deposition of silica protected luminescent layers of Eu:GdVO4 nanoparticles assisted by atmospheric pressure plasma jet. Thin Solid Films, 2016, 598, 88-94. | 0.8 | 4 |
| 42 | Tb3+/Yb3+ codoped silicaâ€“hafnia glass and glassâ€“ceramic waveguides to improve the efficiency of photovoltaic solar cells. Optical Materials, 2016, 52, 62-68. | 1.7 | 53 |
| 43 | Mononuclear and heterodinuclear phenanthrolinedione complexes of d- and f-block elementsâ€¡. Chemical Papers, 2016, 70, . | 1.0 | 2 |
| 44 | Enhancing photovoltaic performance of silicon solar cells by rare earth doped glass ceramic. , 2015, , . | | 0 |
| 45 | Incorporation of Euâ€“Tb codoped nanophosphors in silica-based coatings assisted by atmospheric pressure plasma jet technology. Thin Solid Films, 2015, 578, 38-44. | 0.8 | 3 |
| 46 | Ag+â†”Na+ ion exchanged silicate glasses for solar cells covering: Down-shifting properties. Ceramics International, 2015, 41, 7221-7226. | 2.3 | 32 |
| 47 | Phosphonium-based tetrakis dibenzoylmethane Eu(<scp>iii</scp>) and Sm(<scp>iii</scp>) complexes: synthesis, crystal structure and photoluminescence properties in a weakly coordinating phosphonium ionic liquid. RSC Advances, 2015, 5, 60898-60907. | 1.7 | 22 |
| 48 | Emerging carbon-based nanosensor devices: structures, functions and applications. Advances in Manufacturing, 2015, 3, 63-72. | 3.2 | 20 |
| 49 | Luminescent dansyl-based ionic liquids from amino acids and methylcarbonate onium salt precursors: synthesis and photobehaviour. Green Chemistry, 2015, 17, 538-550. | 4.6 | 11 |
| 50 | Structural and photophysical properties of rare-earth complexes encapsulated into surface modified mesoporous silica nanoparticles. Dalton Transactions, 2014, 43, 16183-16196. | 1.6 | 27 |
| 51 | Rare earths and metal nanoparticles in silicate glass-ceramics to improve the efficiency of photovoltaic solar cells. , 2014, , . | | 2 |
| 52 | Controlling photoinduced electron transfer from PbS@CdS core@shell quantum dots to metal oxide nanostructured thin films. Nanoscale, 2014, 6, 7004-7011. | 2.8 | 81 |
| 53 | Yttrium and lanthanide complexes of Î²-dialdehydes: synthesis, characterization, luminescence and electrochemistry of coordination compounds with the conjugate base of bromomalonaldehyde. Dalton Transactions, 2014, 43, 9303. | 1.6 | 7 |
| 54 | Yttrium and lanthanide complexes of Î²-dialdehydes: synthesis, characterization and luminescence of coordination compounds with the conjugate base of nitromalonaldehyde. Dalton Transactions, 2014, 43, 10120. | 1.6 | 6 |

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| 55 | Combustion synthesis and photoluminescence properties of LaAlO3 nanophosphors doped with Yb3+ ions. Journal of Luminescence, 2014, 153, 408-411. | 1.5 | 11 |
| 56 | Inorganic pigments doped with tris(pyrazol-1-yl)borate lanthanide complexes: A photoluminescence study. Journal of Luminescence, 2014, 145, 963-969. | 1.5 | 15 |
| 57 | Energy transfer between Tb3+ and Eu3+ in co-doped Y2O3 nanocrystals prepared by Pechini method. Journal of Nanoparticle Research, 2013, 15, 1. | 0.8 | 36 |
| 58 | Investigation on the effect of Tb(dbm)3phen on the luminescent properties of Eu(dbm)3phen-containing mesoporous silica nanoparticles. Materials Chemistry and Physics, 2013, 142, 445-452. | 2.0 | 18 |
| 59 | Monitoring the t â†' m Martensitic Phase Transformation by Photoluminescence Emission in <scp><scp>Eu</scp></scp><sup>3+</sup>â€Doped Zirconia Powders. Journal of the American Ceramic Society, 2013, 96, 2628-2635. | 1.9 | 40 |
| 60 | Combustion synthesis and spectroscopic charaterisation of LaAlO3 nanophosphors doped Er3+ ions. Ceramics International, 2013, 39, 9613-9617. | 2.3 | 6 |
| 61 | Unexpected optical activity of cerium in Y<sub>2</sub>O<sub>3</sub>:Ce<sup>3+</sup>, Yb<sup>3+</sup>, Er<sup>3+</sup>up and down-conversion system. Dalton Transactions, 2013, 42, 16837-16845. | 1.6 | 25 |
| 62 | pH-activated doxorubicin release from polyelectrolyte complex layer coated mesoporous silica nanoparticles. Microporous and Mesoporous Materials, 2013, 180, 86-91. | 2.2 | 36 |
| 63 | Combustion synthesis and photoluminescence of Tb3+ doped LaAlO3 nanophosphors. Optical Materials, 2013, 35, 1184-1188. | 1.7 | 27 |
| 64 | In situ synthesis of Eu(Tp)3 complex inside the pores of mesoporous silica nanoparticles. Journal of Luminescence, 2013, 142, 28-34. | 1.5 | 9 |
| 65 | Wedge nanostructures for plasmonic nanofocusing. Optics Express, 2012, 20, 16224. | 1.7 | 14 |
| 66 | Examples of the Use of Optical Spectroscopy to Detect Damage of Thermal Barrier Coatings During Cyclic Oxidation. , 2012, , . | | 0 |
| 67 | Group 3 and lanthanide triflate-complexes with [N,N,O]-donor ligands: synthesis, characterization, and cytotoxic activity. Journal of Coordination Chemistry, 2012, 65, 3903-3916. | 0.8 | 15 |
| 68 | Near Infrared Emission from Monomodal and Bimodal PbS Nanocrystal Superlattices. Journal of Physical Chemistry C, 2012, 116, 6143-6152. | 1.5 | 25 |
| 69 | Combustion synthesis and photoluminescence of Eu3+ doped LaAlO3 nanophosphors. Optical Materials, 2012, 34, 1742-1746. | 1.7 | 31 |
| 70 | Two-dimensional micro-Raman mapping of stress and strain distributions in strained silicon waveguides. Semiconductor Science and Technology, 2012, 27, 085009. | 1.0 | 23 |
| 71 | Optical investigation of Tb3+-doped Y2O3 nanocrystals prepared by Pechini-type solâ€"gel process. Journal of Nanoparticle Research, 2012, 14, 1. | 0.8 | 42 |
| 72 | Photoluminescence properties of YAG:Ce3+,Pr3+ phosphors synthesized via the Pechini method for white LEDs. Journal of Nanoparticle Research, 2012, 14, 1. | 0.8 | 40 |

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| 73 | Stepwise dansyl grafting on the kaolinite interlayer surface. Journal of Colloid and Interface Science, 2012, 375, 112-117. | 5.0 | 25 |
| 74 | Preparation of photoluminescent PMMA doped with tris(pyrazol-1-yl)borate lanthanide complexes. Journal of Luminescence, 2012, 132, 2378-2384. | 1.5 | 31 |
| 75 | Synthesis and optical properties of sub-micron sized rare earth-doped zirconia particles. Optical Materials, 2011, 33, 1745-1752. | 1.7 | 46 |
| 76 | Photoluminescence studies on europium-based scorpionate-complex. Inorganic Chemistry Communication, 2011, 14, 1762-1766. | 1.8 | 29 |
| 77 | Modified StÃ¶ber synthesis of highly luminescent dye-doped silica nanoparticles. Journal of Nanoparticle Research, 2011, 13, 4349-4356. | 0.8 | 41 |
| 78 | Photoluminescence and photoluminescence excitation studies in 80MeV Ni ion irradiated MOCVD grown GaN. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 1925-1928. | 0.6 | 5 |
| 79 | Signal enhancement in DNA microarray using dye doped silica nanoparticles: Application to Human Papilloma Virus (HPV) detection. Biosensors and Bioelectronics, 2011, 26, 2761-2765. | 5.3 | 27 |
| 80 | Modifications in silver-doped silicate glasses induced by ns laser beams. Applied Surface Science, 2011, 257, 5434-5438. | 3.1 | 39 |
| 81 | Enhancing the Sensitivity of DNA Microarray Using Dye-Doped Silica Nanoparticles: Detection of Human Papilloma Virus. , 2010, , . | | 3 |
| 82 | Structural and luminescence properties of europium(III)-doped zirconium carbonates and silica-supported Eu3+-doped zirconium carbonate nanoparticles. Journal of Nanoparticle Research, 2010, 12, 993-1002. | 0.8 | 15 |
| 83 | Comparison of Eu(NO3)3 and Eu(acac)3 precursors for doping luminescent silica nanoparticles. Journal of Nanoparticle Research, 2010, 12, 1925-1931. | 0.8 | 23 |
| 84 | Structural and photoluminescence properties of ZrO2:Eu3+ @ SiO2 nanophosphors as a function of annealing temperature. Journal of Luminescence, 2010, 130, 2429-2436. | 1.5 | 28 |
| 85 | Investigation of luminescent dye-doped or rare-earth-doped monodisperse silica nanospheres for DNA microarray labelling. Optical Materials, 2010, 32, 1652-1658. | 1.7 | 22 |
| 86 | Luminescent dye-doped or rare-earth-doped monodisperse silica nanospheres as efficient labels in DNA microarrays. Proceedings of SPIE, 2009, , . | 0.8 | 4 |
| 87 | Acid Synthesis of Luminescent Amine-functionalized or Erbium-doped Silica Spheres for Biological Applications. Journal of Fluorescence, 2008, 18, 507-511. | 1.3 | 19 |
| 88 | Luminescent Aminoâ€functionalized or Erbiumâ€doped Silica Spheres for Biological Applications. Annals of the New York Academy of Sciences, 2008, 1130, 262-266. | 1.8 | 22 |
| 89 | Synthesis and characterization of monodisperse Eu-doped luminescent silica nanospheres for biological applications. , 2008, , . | | 8 |
| 90 | Study of the Si-nanocluster to Er3+ energy transfer dynamics using a double-pulse experiment. Optical Materials, 2006, 28, 815-819. | 1.7 | 3 |

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| 91 | <title>Investigation and application of size-dependent properties of silicon-based nanoparticles produced by laser pyrolysis</title>. , 2005, , . | | 0 |
| 92 | Study of the energy transfer mechanism in different glasses co-doped with Si nanoaggregates and Er3+ ions. Optical Materials, 2005, 27, 904-909. | 1.7 | 12 |
| 93 | Towards controllable optical properties of silicon based nanoparticles for applications in opto-electronics. Optical Materials, 2005, 27, 1014-1019. | 1.7 | 14 |
| 94 | Time dependence and excitation spectra of the photoluminescence emission at 1.54Î¼m in Si-nanocluster and Er co-doped silica. Optical Materials, 2005, 27, 884-889. | 1.7 | 9 |
| 95 | Silver-sensitized erbium-doped ion-exchanged solâ€“gel waveguides. Applied Physics A: Materials Science and Processing, 2005, 80, 557-563. | 1.1 | 57 |
| 96 | Probe of the Si nanoclusters to Er3+ energy transfer dynamics by double-pulse excitation. Applied Physics Letters, 2005, 87, 061109. | 1.5 | 8 |
| 97 | Sensitizing effects in Ag-Er codoped glasses for optical amplification. , 2004, 5451, 311. | | 17 |
| 98 | Evidence of energy transfer in an aluminosilicate glass codoped with Si nanoaggregates and Er3+ ions. Journal of Applied Physics, 2004, 96, 3925-3932. | 1.1 | 37 |
| 99 | Luminescence Properties of a Multi-Component Glass Co-Implanted with Si and Er. Solid State Phenomena, 2004, 99-100, 37-40. | 0.3 | 0 |
| 100 | Optical and structural investigation on the energy transfer in a multicomponent glass co-doped with Si nanoaggregates and Er3+ ions. Materials Research Society Symposia Proceedings, 2004, 817, 49. | 0.1 | 2 |
| 101 | A simple approach for upconversion determination using low excitation power: the photoluminescence analysis of an Er-doped aluminosilicate glass. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2003, 105, 20-24. | 1.7 | 11 |
| 102 | Room-temperature 1.54 Î¼m photoluminescence from Er-doped Si-rich silica layers obtained by reactive magnetron sputtering. Journal of Applied Physics, 2003, 94, 3869-3874. | 1.1 | 59 |
| 103 | Evaluation of double focal plane exposure technique for 248-nm and 193-nm lithography for semidense trenches and contacts. , 2002, 4691, 1544. | | 0 |
| 104 | Assessment of electrical and optical properties of heavily Fe-implanted semi-insulating InP. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2001, 80, 202-205. | 1.7 | 3 |