

# Tiziana Cesca

## List of Publications by Year in descending order

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69  
papers

1,051  
citations

361045

20  
h-index

454577

30  
g-index

69  
all docs

69  
docs citations

69  
times ranked

1200  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrical control of optical emitter relaxation pathways enabled by graphene. <i>Nature Physics</i> , 2015, 11, 281-287.	6.5	99
2	Local-field enhancement effect on the nonlinear optical response of gold-silver nanoplanets. <i>Optics Express</i> , 2012, 20, 4537.	1.7	65
3	Oxidation effects on the SERS response of silver nanoprism arrays. <i>RSC Advances</i> , 2017, 7, 369-378.	1.7	55
4	Enhancement of the Er <sup>3+</sup> luminescence in Er-doped silica by few-atom metal aggregates. <i>Physical Review B</i> , 2011, 83, .	1.1	48
5	Correlation between <i>in situ</i> structural and optical characterization of the semiconductor-to-metal phase transition of VO <sub>2</sub> thin films on sapphire. <i>Nanoscale</i> , 2020, 12, 851-863.	2.8	40
6	Nonlinear absorption tuning by composition control in bimetallic plasmonic nanoprism arrays. <i>Nanoscale</i> , 2015, 7, 12411-12418.	2.8	31
7	Photo-acoustic detection of chirality in metal-polystyrene metasurfaces. <i>Applied Physics Letters</i> , 2019, 114, 053101.	1.5	31
8	Eu <sup>3+</sup> reduction and efficient light emission in Eu <sub>2</sub> O <sub>3</sub> films deposited on Si substrates. <i>Optics Express</i> , 2012, 20, 5501.	1.7	30
9	Optimal geometric parameters of ordered arrays of nanoprisms for enhanced sensitivity in localized plasmon based sensors. <i>Biosensors and Bioelectronics</i> , 2015, 65, 346-353.	5.3	30
10	Au-Ag nanoalloy molecule-like clusters for enhanced quantum efficiency emission of Er <sup>3+</sup> ions in silica. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 28262-28269.	1.3	28
11	Gold-silver alloy semi-nanoshell arrays for label-free plasmonic biosensors. <i>Nanoscale</i> , 2017, 9, 10117-10125.	2.8	28
12	Control of silver clustering for broadband Er <sup>3+</sup> luminescence sensitization in Er and Ag co-implanted silica. <i>Journal of Luminescence</i> , 2018, 197, 104-111.	1.5	27
13	GaN-Based Laser Wireless Power Transfer System. <i>Materials</i> , 2018, 11, 153.	1.3	26
14	Bidimensional ordered plasmonic nanoarrays for nonlinear optics, nanophotonics and biosensing applications. <i>Materials Science in Semiconductor Processing</i> , 2019, 92, 2-9.	1.9	26
15	Nonlinear optical properties of Au-Ag nanoplanets made by ion beam processing of bimetallic nanoclusters in silica. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2010, 268, 3227-3230.	0.6	24
16	Ultra-fast dynamics in the nonlinear optical response of silver nanoprism ordered arrays. <i>Nanoscale</i> , 2018, 10, 5182-5190.	2.8	24
17	Near-infrared room temperature luminescence of few-atom Au aggregates in silica: a path for the energy-transfer to Er <sup>3+</sup> ions. <i>Nanoscale</i> , 2014, 6, 1716-1724.	2.8	23
18	Emission Rate Modification and Quantum Efficiency Enhancement of Er <sup>3+</sup> Emitters by Near-Field Coupling with Nanohole Arrays. <i>ACS Photonics</i> , 2018, 5, 2189-2199.	3.2	23

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19	Spectral dependence of nonlinear absorption in ordered silver metallic nanoprism arrays. Scientific Reports, 2017, 7, 5307.	1.6	22
20	Dichroic nonlinear absorption response of silver nanoprism arrays. RSC Advances, 2017, 7, 17741-17747.	1.7	21
21	Circular Dichroism in Low-Cost Plasmonics: 2D Arrays of Nanoholes in Silver. Applied Sciences (Switzerland), 2020, 10, 1316.	1.3	21
22	Implantation damage effects on the Er <sup>3+</sup> luminescence in silica. Optics Express, 2012, 20, 16639.	1.7	20
23	SiOC thin films: an efficient light source and an ideal host matrix for Eu <sup>2+</sup> ions. Optics Express, 2013, 21, 20280.	1.7	20
24	Tuning ZnO nanorods photoluminescence through atmospheric plasma treatments. APL Materials, 2019, 7, .	2.2	20
25	Nanopatterning of silica with mask-assisted ion implantation. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 3211-3214.	0.6	19
26	Interatomic Coupling of Au Molecular Clusters and Er <sup>3+</sup> Ions in Silica. ACS Photonics, 2015, 2, 96-104.	3.2	19
27	All-Dielectric Silicon Nanoslots for $\langle mml:msup \rangle \langle mml:mi \rangle Er \langle mml:mi \rangle \langle mml:mrow \rangle \langle mml:mn \rangle 3 \langle mml:mn \rangle \langle mml:mo \rangle + \langle mml:mo \rangle \langle mml:mrow \rangle \langle mml:mn \rangle 15 \langle mml:mn \rangle \langle mml:mo \rangle \langle mml:mrow \rangle \langle mml:mn \rangle 17 \langle mml:mn \rangle$ Photoluminescence Enhancement. Physical Review Applied, 2020, 14, .	1.5	17
28	Chiral effects in low-cost plasmonic arrays of elliptic nanoholes. Optical and Quantum Electronics, 2020, 52, 1.	1.5	17
29	Rich Near-Infrared Chiral Behavior in Diffractive Metasurfaces. Physical Review Applied, 2021, 16, .	1.5	16
30	Diffracted Beams from Metasurfaces: High Chiral Detectivity by Photothermal Deflection Technique. Advanced Optical Materials, 2021, 9, 2100670.	3.6	16
31	Diffractive dipolar coupling in non-Bravais plasmonic lattices. Nanoscale Advances, 2020, 2, 1261-1268.	2.2	14
32	Control of Au nanoantenna emission enhancement of magnetic dipolar emitters by means of VO <sub>2</sub> phase change layers. Optics Express, 2019, 27, 24260.	1.7	12
33	Core-shell-like Au sub-nanometer clusters in Er-implanted silica. Nanoscale, 2015, 7, 8968-8977.	2.8	11
34	Polarization dependence of second harmonic generation from plasmonic nanoprism arrays. Scientific Reports, 2019, 9, 11514.	1.6	11
35	Energy-transfer from ultra-small Au nanoclusters to Er <sup>3+</sup> ions: a short-range mechanism. Physical Chemistry Chemical Physics, 2014, 16, 15158.	1.3	10
36	Controlling the Emission Rate of Er <sup>3+</sup> Ions by Dielectric Coupling with Thin Films. Journal of Physical Chemistry C, 2015, 119, 6728-6736.	1.5	10

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37	Amplified sensitization of Er <sup>3+</sup> luminescence in silica by Au <sub>N</sub> quantum clusters upon annealing in a reducing atmosphere. RSC Advances, 2016, 6, 99376-99384.	1.7	10
38	Luminescent ultra-small gold nanoparticles obtained by ion implantation in silica. Nuclear Instruments & Methods in Physics Research B, 2014, 326, 7-10.	0.6	9
39	Emission Efficiency Enhancement of Er <sup>3+</sup> Ions in Silica by Near-Field Coupling With Plasmonic and Pre-Plasmonic Nanostructures. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1700437.	0.8	8
40	Rare-earth fluorescence thermometry of laser-induced plasmon heating in silver nanoparticles arrays. Scientific Reports, 2018, 8, 13811.	1.6	8
41	Optimal geometry for plasmonic sensing with non-interacting Au nanodisk arrays. Nanoscale Advances, 2020, 2, 3304-3315.	2.2	8
42	Tuning the linear and nonlinear optical properties of ordered plasmonic nanoarrays by morphological control with thermal annealing. Applied Surface Science, 2019, 491, 67-74.	3.1	7
43	Tunable Third-Order Nonlinear Optical Response in $\mu$ -Near-Zero Multilayer Metamaterials. Physical Review Applied, 2021, 16, .	1.5	7
44	Lanthanide Ions Sensitization by Small Noble Metal Nanoclusters. ACS Photonics, 2021, 8, 1364-1376.	3.2	6
45	Electrical spectroscopy of high resistivity ion-implanted layers by current-voltage measurements. Applied Physics Letters, 2008, 93, 102114.	1.5	4
46	Enhanced optical functionalities in silica by doping with Au-based nanostructures. Physica Status Solidi (B): Basic Research, 2015, 252, 119-123.	0.7	4
47	Characterization of Chirality in Diffractive Metasurfaces by Photothermal Deflection Technique. Applied Sciences (Switzerland), 2022, 12, 1109.	1.3	4
48	Effect of ultrasmall Au-Ag aggregates formed by ion implantation in Er-implanted silica on the 1.54 $\mu$ m Er <sup>3+</sup> luminescence. Nuclear Instruments & Methods in Physics Research B, 2014, 326, 11-14.	0.6	3
49	Incorporation of Highly Concentrated Iron Impurities in InP by High Temperature Ion Implantation. Materials Research Society Symposia Proceedings, 2002, 719, 1021.	0.1	2
50	Effects of n-type doping on active Fe sites in ion implanted Fe in InP. Applied Physics Letters, 2006, 88, 251912.	1.5	2
51	Enhancement of Er <sup>3+</sup> luminescence by metal aggregates. Radiation Effects and Defects in Solids, 2011, 166, 357-366.	0.4	2
52	Gold-based nucleation in implanted silica studied by x-ray absorption spectroscopy. Ceramics International, 2015, 41, 8660-8664.	2.3	2
53	Buffer-layer-assisted morphological manipulation of metal nanoparticle arrays by laser irradiation. Applied Surface Science, 2019, 487, 726-733.	3.1	2
54	Spectral Nonlinear Optical Response of Ion-Implanted Au and Ag Nanoparticles in Sapphire: A Three-Level Model Description. Physical Review Applied, 2020, 14, .	1.5	2

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55	Double-Langmuir model for optimized nanohole array-based plasmonic biosensors. Applied Surface Science, 2021, 556, 149802.	3.1	2
56	Role of the Substrate Doping in the Activation of Fe <sup>2+</sup> centers in Fe implanted InP. Materials Research Society Symposia Proceedings, 2005, 864, 151.	0.1	1
57	On the contribution of secondary fluorescence to the Fe signal in $\text{Fe}^{2+}$ -doped GaN. Applied Physics A: Materials Science and Processing, 2010, 99, 433-436.	1.1	1
58	Au clustering formation by implantation in silica: optical, magnetic and sensing properties. Radiation Effects and Defects in Solids, 2013, 168, 418-430.	0.4	1
59	Impact of thermal treatment on the optical performance of InGaN/GaN light emitting diodes. AIP Advances, 2015, 5, 107121.	0.6	1
60	Broadband tunable nonlinear optical response in plasmonic metamaterials -INVITED. EPJ Web of Conferences, 2020, 238, 11001.	0.1	1
61	Evolution of the local Fe environment in high temperature implanted InP. , 2002, , .		0
62	Structural and electrical investigation of high temperature Fe implanted GaInP layers lattice matched to GaAs. , 0, , .		0
63	High resistivity in GaInP/GaAs by high temperature Fe ion implantation. , 0, , .		0
64	Correlation between room temperature luminescence and energy-transfer in Er <sup>3+</sup> /Au co-implanted silica. Nuclear Instruments & Methods in Physics Research B, 2015, 362, 68-71.	0.6	0
65	Hybrid Metal-Polystyrene Metasurfaces: Circular Dichroism Evidenced by Means of Photo-Acoustic Technique. , 2019, , .		0
66	Photo-deflection technique for characterization of chirality in diffractive metasurfaces. , 2021, , .		0
67	Rich Broadband Chiral Behavior in Low-cost Plasmonic Nanostructures. , 2021, , .		0
68	Ordered arrays of metallic nanoprisms for photonic applications. , 2020, , 111-138.		0
69	Selective Control of Eu <sup>3+</sup> Radiative Emission by Hyperbolic Metamaterials. Materials, 2022, 15, 4923.	1.3	0