

METRICS (last update: 04/10/2025)

GOOGLE SCHOLAR: 198 publications, 1782 citations, h-index 22

SCOPUS: 183 publications, 1553 citations, h-index 19

WEB OF SCIENCES: 172 publications, 1432 citations, h-index 19

PUBLICATIONS in REFEREED JOURNALS:

1. L. Torrisi, B. Fazio, A. Serra, D. Manno, A. Torrisi, M. Cutroneo "Multiple spectroscopies of carbon dots synthesized by laser ablation in biocompatible liquid", *Opt. Laser Technol.* **192**, part E, 113986 (2025). DOI: 10.1016/j.optlastec.2025.113986
2. L. Torrisi, L. Silipigni, A. Torrisi, M. Cutroneo, A. Malara, A. Fotia, C. Nunnari, P. Frontera "Physical Characterization of Multiwire Polystyrene Produced by Electrospinning Technique", *Polymers* **17**(19), 2587 (2025). DOI: 10.3390/polym17192587
3. L. Torrisi, A. Torrisi, M. Cutroneo "Fullerene C20 synthesis in carbon plasma produced by Nd:YAG laser ablation", *Appl. Nanosci.* **15**(40), 1-13 (2025). DOI: 10.1007/s13204-025-03115-9
4. L. Torrisi, A. Torrisi, M. Cutroneo "Comparison between ns-laser ablation in vacuum of two metals with very high and very low boiling points: zinc and tungsten", *Appl. Phys. A* **131**(8), 1-12 (2025). DOI: 10.1007/s00339-025-08730-5
5. L. Torrisi, A. Torrisi, M. Cutroneo "Mass spectrometry of laser reduced graphene oxide in vacuum", *Int. J. Mass Spectrom.* **516**, 117494 (2025). DOI: 10.1016/j.ijms.2025.117494
6. L. Torrisi, G. Genovese D. Spagnuolo D. Lombardo, A. Torrisi, M. Cutroneo "Highly visible photoluminescence in biocompatible liquids obtained by rehydration of *Saccharina latissima* algae at room temperature", *Opt. Mater.* **167**, 117245 (2025). DOI: 10.1016/j.optmat.2025.117245
7. L. Torrisi, D. Manno, A. Serra, A. Torrisi, M. Cutroneo "Full-colors by luminescence induced by UV excitation in carbon dots synthesized by graphite laser ablation and oxidation in liquids", *Opt. Laser Technol.* **191**, 113308 (2025). DOI: 10.1016/j.optlastec.2025.113308
8. L. Torrisi, M. Cutroneo, A. Torrisi, D. Manno, A. Serra "Synthesis of High Fluorescent Carbon Dots by Laser Ablation of Bay Leaves in Biocompatible Solutions", *Luminescence* **40**(5), e70202 (2025). DOI: 10.1002/bio.70202
9. A. Torrisi, A. M. Roszkowska, M. Cutroneo, L. Torrisi, "Spectroscopic Analysis of Silicone Intraocular Lenses by Optical Transmission Measurements and FTIR", *Int. Polym. Process.* **40**(4) (2025). DOI: 10.1515/ipp-2025-0016
10. A. Torrisi, M. Lentini, S. Pezzino, C. Gagliano, S. Lavallo, R. Malaguarnera, S. Castorina, F. Torrisi, A. Maniaci "The Promise and Challenges of 3D Bioprinting in Otolaryngology: A Contemporary Perspective Viewpoint", *Clin. Otolaryngol.* **50**(5) (2025). DOI: 10.1111/coa.14333
11. L. Torrisi, M. Cutroneo, A. Torrisi "Plasma production by laser ablation of heavy metals", *Contrib. Plasm. Phys.* **65**(7), e70023 (2025). DOI: 10.1002/ctpp.70023

12. L. Silipigni, M. Cutroneo, G. Salvato, A. Torrisi, L. Torrisi "Thermally treated GO foil dielectric properties under low and medium vacuum conditions", *Radiat. Eff. Defects S.* **180**(1-2), 4-15 (2025). DOI: 10.1080/10420150.2025.2474956
13. M. Cutroneo, L. Silipigni, A. Torrisi, D. Franco, P. Malinsky, L. Torrisi "Polymethylmethacrylate-palladium composites as promising packaging material", *Radiat. Eff. Defects S.* **180**(1-2), 156-165 (2025). DOI: 10.1080/10420150.2025.2475365
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15. L. Torrisi, V. Havranek, P. Malinsky, A. Mackova, D. Manno, A. Serra, A. Torrisi, M. Cutroneo "Visible fluorescence in carbon dots deposited on silicon under energetic proton beams excitation", *J. Nanoparticle Res.* **27**(3), 58 (2025). DOI: 10.1007/s11051-025-06255-9
16. L. Torrisi, M. Cutroneo, L. Silipigni, A. Torrisi, A. Signorile, D. Manno, A. Serra "Luminescent carbon dots structure by charcoal laser ablation in biocompatible liquid", *Fuller. Nanotub. Car. N.* **33**(8) (2025). DOI: 10.1080/1536383X.2025.2461504
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22. A. Torrisi, A. M. Roszkowska, M. Cutroneo, L. Silipigni, L. Torrisi "Irradiation of PMMA intraocular lenses by a 365 nm UV lamp", *Int. Polym. Process.*, **39**(4), 490-496 (2024). DOI: 10.1515/ipp-2024-0029
23. L. Torrisi, M. Cutroneo, B. Fazio, S. Conoci, G. Salvato, A. Torrisi, L. Silipigni "Graphene oxidation and reduction in medium vacuum by an UV lamp at 365 nm wavelength", *Radiat. Eff. Defects S.* **179**(9-10), 1394-1408 (2024). DOI: 10.1080/10420150.2024.2346321
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PEER-REVIEWED CONFERENCE PROCEEDINGS:

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CONFERENCE ABSTRACTS, TALKS, WORKSHOPS and POSTER PRESENTATIONS:

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2. L. Torrisi, L. Silipigni, D. Lombardo, D. Franco, A. Torrisi, M. Cutroneo, "Carbon dots luminescence via carbon laser ablation in biocompatible solution", XXXV Annual Conference of SIFB (Società Italiana di Fotobiologia) – Mediterranean Edition, 9th September 2024, University of Messina, Messina (Italy).
3. L. Torrisi, D. Lombardo, L. Silipigni, A. Torrisi, M. Cutroneo, "Luminescence of Carbon dots produced by laser ablation in biocompatible liquid", Workshop "Light Interaction", 20st May 2024, Accademia Peloritana dei Pericolanti, Messina (Italy).
4. A. Torrisi, "Progettazione e realizzazione di dispositivi di potenza e rivelatori di radiazione", UNICT PNRR RTDday, 25th July, 2023, Rettorato Università di Catania (Italy).

5. L. Torrisi, L. Silipigni, G. Salvato, M. Cutroneo, A. Torrisi "Graphene-based materials: properties, advancements and applications", Workshop on Physics and Engineering: synergy of innovative materials' technology and applications in basic research, 21st November 2022, Accademia Peloritana dei Pericolanti, Messina (Italy).
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8. A. Serra, D. Manno, A. Torrisi, L. Calcagnile, M. Martino, A. Buccolieri, G. Quarta, M. Cesaria, P. Verwilligen, A.P. Caricato "Characterization of pulsed-laser deposited diamond-like carbon films for micro-pattern gas detectors", 107° National Conference SIF, 13th - 17th September 2021 (Online Conference) – Video Communication.
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38. P. W. Wachulak, A. Torrisi, A. Bartnik, Ł. Węgrzyński, T. Fok, H. Fiedorowicz "Mikroskop pracujący w zakresie „okna wodnego” z rozdzielczością 60 nm na bazie laserowo-plazmowego źródła SXR i jego przykładowe aplikacje", XI sympozjum Techniki Laserowej (Laser Technology Symposium), Jastarnia, Poland, 27th – 30th September 2016
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43. A. Torrisi, P. W. Wachulak, M. F. Nawaz, H. Fiedorowicz, L. Pina "Characterization and optimization of SXR and EUV nanoscale imaging microscopy based on double stream gas-puff target sources", Extreme-ultraviolet and X-ray Training in Advanced Technologies for Interdisciplinary Cooperation EXTATIC 2016 Welcome Week Workshop, Southampton (United Kingdom), 11th - 15th January, 2016 – TALK
44. P. Wachulak, A. Torrisi, L. Wegrzynski, A. Bartnik, T. Fok, H. Fiedorowicz "Soft X-ray compact microscope based on a double stream gas puff target source and applications", XFEL Users Meeting 2016, DESY Hamburg (Germany), 27th - 29th January, 2016
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