

Publication List (2004-present)



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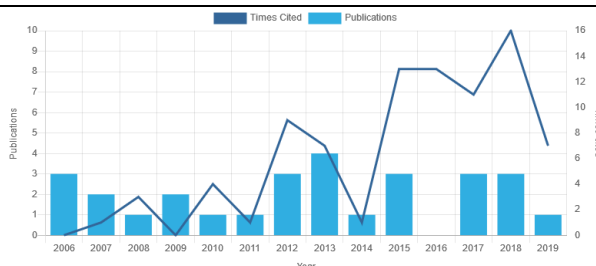
Number of publications: 35

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Number of ISI independent citations: 91

Hirsch Index: 6

[Publons](#), [Scopus](#), [Google Scholar](#) or [Publication List](#).



ISI Papers

1. C. M. Muntean, N. E. Dina, M. Coroş, N. Toşa, A. I. Turza and M. Dan, "Graphene/silver nanoparticles-based surface-enhanced Raman spectroscopy detection platforms: Application in the study of DNA molecules at low pH", *Journal of Raman Spectroscopy* **2019**, <https://doi.org/10.1002/jrs.5722>, Early Access **IF 2.809**
2. C. M. Muntean, T.-L. Biter, I. Bratu, **N. Toşa** "Metallic surface dynamics of genomic DNA and its nitrogenous bases: SERS assessment and theoretical considerations", *Journal of Molecular Modeling* **2019**, 25 (6): 162, 1-8. **IF 1.507**
3. A. M. M. Gherman, **N. Tosa**, M. V. Cristea, V. Tosa, S. Porav, P. S. Agachi, „Artificial neural networks modelling of the parameterized gold nanoparticles generation through photo-induced process”, *Materials Research Express* **2018**, 5(8), 085011, 1-13. **IF 1.151**
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5. A. Falamas, N. Tosa, V. Tosa, "Measuring the frequency chirp of white-light continuum in a pump-probe system", *Journal of Optoelectronics and Advanced Materials* **2017**, 5-6, 291-297. **IF 0.39**
6. E. Pavel, S. Jinga, B. S. Vasile, A. Dinescu, R. Trusca, **N. Tosa**, „3D direct laser writing of Petabyte Optical Disk", *Optics and Laser Technology* **2015**, 71, 45-49. **IF 1.649**
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8. E. Pavel, S. Jinga, B. S. Vasile, A. Dinescu, V. Marinescu, R. Trusca, **N. Tosa**, „Quantum Optical Lithography from 1 nm resolution to pattern transfer on silicon wafer", *Optics and Laser Technology* **2014**, 60, 80-84. **IF 1.649**
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10. S. Neamtu, **N. Tosa**, M. Bogdan, "Spectroscopic investigation of tolmetin interaction with human serum albumin", *J. Pharmaceutical and Biomedical Analysis* **2013**, 85, 277-282. **IF 2.829**
11. L. Buimaga-Iarinca, C. Morari, **N. Tosa**, "Adsorption of cysteine on gold (111) surfaces: a DFT

- study”, *European Biophysics Journal with Biophysics Letters* **2011**, 40, 103-103. **IF 2.139**
12. C. Varodi, **N. Tosa**, E. Bogdan, I. Grosu, L. M. Muresan, I. Turcu, „Novel Carbon Paste Selective Material for Potassium Detection”, *Optoelectronics and Advanced Materials - Rapid Communications* **2010**, 4(11), 1724-1727. **IF 0.477**
 13. **N. Tosa**, A. Bende, R. A. Varga, A. Terec, I. Bratu, I. Grosu, „H-Bond-Driven Supramolecular Architectures of the Syn and Anti Isomers of the Dioxime of Bicyclo[3.3.1]nonane-3,7-dione”, *Journal of Organic Chemistry* **2009**, 74, 3944-3947. **IF 3.952**
 14. **N. Tosa**, G. Vitrant, P. L. Baldeck, O. Stephan, I. Grosu, “Fabrication of 3D Metallic Micro/nanostructures by Two-Photon Absorption”, *Journal of Optoelectronics and Advanced Materials* **2008**, 10(9), 2199-2204. **IF 0.577**
 15. **N. Tosa**, G. Vitrant, P. L. Baldeck, O. Stephan, S. Astilean, I. Grosu, “Two-photon laser deposition of gold nanowires”, *Journal of Optoelectronics and Advanced Materials* **2007**, 9(3), 641-645. **IF 0.827**
 16. J. Bosson-Ehoomann, A. Mihut, **N. Tosa**, S. Astilean, M. Pierre, C. Rambaud, L. Vurth, P. Baldeck, O. Stephan, “Two -Photon Fabrication of Metallic Nanowires for Plasmonics“, *Nonlinear Optics, Quantum Optics* **2006**, 35(1-3),195-200. **IF 0.478**

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2. F. Toadere, **N. Tosa** „Noise removal from raw OCT images achieved using an OCT system operating in the bandwidth 827 nm-873 nm”, *Proc. SPIE, Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies IX*, **2018**, 10977, 109770N, 1-4;
3. P. Farago, R. Galatus, C. Farcas, G. Oltean, **N. Tosa**, „Low-cost Quasi-distributed Position Sensing Platform based on Blue Fluorescent Optical Fiber”, *IEEE 23rd International Symposium For Design and Technology in Electronic Packaging (Siitme)* **2017**, 328-331.
4. C. D. Tudoran, D. N. Dadarlat, **N. Tosa**, I. Misan, „High Performance Protection Circuit for Power Electronics Applications”, *AIP Conf. Proceedings* **2015**, 1700, 050007 1-5.
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7. F. Toadere, **N. Tosa**, “Functioning of the Protective UV Filters Based on Gold Nanoparticles”, *AIP: Conf. Proceedings* **2012**, 1425, 93-97. **ISSN 1551-7616**
8. **N. Tosa**, Z. Moldovan, I. Bratu, “Simultaneous Determination of Some Artificial Sweeteners in Ternary Formulations by FT-IR and EI-MS”, *AIP: Conf. Proceedings* **2012**, 1425, 98-101. **ISSN 1551-7616**
9. L. Buimaga-larinca, **N. Tosa**, “DFT study of cysteine adsorption on gold defect surfaces”, *AIP: Conf. Proceedings* **2012**, 1425, 22-25. **ISSN 1551-7616**
10. **N. Tosa**, L. Olenic, I. Bratu, R. Turdeanu, I. Turcu, “Infrared and UV-Vis Spectroscopic Study of 3,7,10-Substituted-Phenothiazine Derivatives Adsorbed on Gold Nanoparticles”, *J. Phys.: Conf. Ser.* **2009**, 182, 012019, 1-5. **ISSN 1742-6596**.
11. G. Vitrant, J. Bosson, **N. Tosa**, T. Rosenzveig, O. Stephan, S. Astilean, P.L. Baldeck, “Observation of optical dispersion effects in metallic nanostructures fabricated by laser illumination of an organic polymer matrix doped with metallic salts” *Proc. SPIE* **2007**, 6470, 64700O, 1-6. **ISSN 0277-786x**.

12. **N. Tosa**, J. Bosson, M. Pierre, C. Rambaud, M. Bouriau, G. Vitrant, O. Stephan, S. Astilean, P. L. Baldeck, "Optical properties of metallic nanostructures fabricated by two-photon induced photoreduction", *Proc. SPIE* **2006**, 6195, 619501, 1-8. **ISSN 0277-786x**.

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1. A. Scrob, J.-L. Auguste, R. Galatus, L. Szolga, **N. Tosa**, „Design for sensor based on suspended core microstructured optical fiber”, *Acta Technica Napocensis Electronics and Telecommunications* **2017** 58(3), 7-10. **ISSN 1221-6542**.
2. A. Falamas, **N. Tosa**, V. Tosa "Dynamics of laser excited nanoparticles conjugated with cysteine" *Proceeding of the 10th International Conference on Laser-light and Interactions with Particles*, **2014**, MT-5.1-5.3, (F. Onofri and B. Stout eds., Aix-Marseille University, Marseille, 2014) **ISBN: 978-2-9548080-0-0**.
3. P.L. Baldeck, J. Bosson, M. Iosin, C.-L. Lin, **N. Tosa**, L. Vurtz, G. Vitrant and O. Stephan, "3D Laser Micro-Structuration of Polymers, Metals and Biomaterials by Two-Photon Induced Photochemistry", *Trends in Optics & Photonics* **2009**, 3-8. **ISSN 0277-786x**.
4. **N. Tosa**, J. Bosson, G. Vitrant, P. Baldeck, O. Stephan, "Fabrication of metallic nanowires by two-photon absorption" *Scientific Study&Research-Chemistry&Chemical Engineering* **2006**, VII(4), 899-904. **ISSN 1582-540x**.
5. A. Mihis, **N. Tosa**, L. Drule, "Synthesis of Some Compounds having 1,3-Dioxane Rings with Liquid-Crystalline Properties", *Scientific Bulletin of North University of Baia-Mare XIX(D)* **2005**, 185-192. **ISSN 1582-0548**
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