

Monica Terracciano

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

1,107
citations

394421

19
h-index

434195

31
g-index

57
all docs

57
docs citations

57
times ranked

1245
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Diatomite biosilica nanocarriers for siRNA transport inside cancer cells. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 3393-3403. | 2.4 | 88 |
| 2 | Surface bioengineering of diatomite based nanovectors for efficient intracellular uptake and drug delivery. <i>Nanoscale</i> , 2015, 7, 20063-20074. | 5.6 | 81 |
| 3 | Diatomite silica nanoparticles for drug delivery. <i>Nanoscale Research Letters</i> , 2014, 9, 329. | 5.7 | 80 |
| 4 | Diatoms Green Nanotechnology for Biosilica-Based Drug Delivery Systems. <i>Pharmaceutics</i> , 2018, 10, 242. | 4.5 | 66 |
| 5 | Aminosilane functionalizations of mesoporous oxidized silicon for oligonucleotide synthesis and detection. <i>Journal of the Royal Society Interface</i> , 2013, 10, 20130160. | 3.4 | 60 |
| 6 | Porous Silicon Optical Devices: Recent Advances in Biosensing Applications. <i>Sensors</i> , 2021, 21, 1336. | 3.8 | 55 |
| 7 | Optical characterization of aminosilane-modified silicon dioxide surface for biosensing. <i>Journal of the European Optical Society-Rapid Publications</i> , 0, 8, . | 1.9 | 54 |
| 8 | Synthetic vs Natural: Diatoms Bioderived Porous Materials for the Next Generation of Healthcare Nanodevices. <i>Advanced Healthcare Materials</i> , 2017, 6, 1601125. | 7.6 | 47 |
| 9 | Internalization kinetics and cytoplasmic localization of functionalized diatomite nanoparticles in cancer cells by Raman imaging. <i>Journal of Biophotonics</i> , 2018, 11, e201700207. | 2.3 | 41 |
| 10 | Solid phase synthesis of a thrombin binding aptamer on macroporous silica for label free optical quantification of thrombin. <i>RSC Advances</i> , 2016, 6, 86762-86769. | 3.6 | 39 |
| 11 | Nanostructured Biosilica of Diatoms: From Water World to Biomedical Applications. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6811. | 2.5 | 39 |
| 12 | Chemical modification of TiO ₂ nanotube arrays for label-free optical biosensing applications. <i>Applied Surface Science</i> , 2017, 419, 235-240. | 6.1 | 38 |
| 13 | Nanoparticle-based strategy for personalized B-cell lymphoma therapy. <i>International Journal of Nanomedicine</i> , 2016, Volume 11, 6089-6101. | 6.7 | 35 |
| 14 | Bioengineered Silicon Diatoms: Adding Photonic Features to a Nanostructured Semiconductive Material for Biomolecular Sensing. <i>Nanoscale Research Letters</i> , 2016, 11, 405. | 5.7 | 32 |
| 15 | SERS Quantification of Galunisertib Delivery in Colorectal Cancer Cells by Plasmonic-Assisted Diatomite Nanoparticles. <i>Small</i> , 2021, 17, e2101711. | 10.0 | 32 |
| 16 | Small Synthetic Peptides Bioconjugated to Hybrid Gold Nanoparticles Destroy Potentially Deadly Bacteria at Submicromolar Concentrations. <i>Bioconjugate Chemistry</i> , 2018, 29, 3877-3885. | 3.6 | 31 |
| 17 | Gold decorated porous biosilica nanodevices for advanced medicine. <i>Nanotechnology</i> , 2018, 29, 235601. | 2.6 | 29 |
| 18 | Porous Silicon-Based Aptasensors: The Next Generation of Label-Free Devices for Health Monitoring. <i>Molecules</i> , 2019, 24, 2216. | 3.8 | 25 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Photoluminescence of Graphene Oxide Infiltrated into Mesoporous Silicon. <i>Journal of Physical Chemistry C</i> , 2014, 118, 27301-27307. | 3.1 | 24 |
| 20 | Polymeric Microneedle Arrays: Versatile Tools for an Innovative Approach to Drug Administration. <i>Advanced Therapeutics</i> , 2019, 2, 1900036. | 3.2 | 22 |
| 21 | Quantification and Reduction of the Residual Chemical Reactivity of Passivated Biodegradable Porous Silicon for Drug Delivery Applications. <i>Silicon</i> , 2018, 10, 349-359. | 3.3 | 17 |
| 22 | Photoluminescence enhancement of graphene oxide emission by infiltration in an aperiodic porous silicon multilayer. <i>Optics Express</i> , 2016, 24, 24413. | 3.4 | 16 |
| 23 | In Vivo Toxicity Assessment of Hybrid Diatomite Nanovectors Using <i>Hydra vulgaris</i> as a Model System. <i>Advanced Biology</i> , 2019, 3, e1800247. | 3.0 | 15 |
| 24 | A new strategy for label-free detection of lymphoma cancer cells. <i>Biomedical Optics Express</i> , 2015, 6, 1353. | 2.9 | 13 |
| 25 | PNA-Based Graphene Oxide/Porous Silicon Hybrid Biosensor: Towards a Label-Free Optical Assay for Brugada Syndrome. <i>Nanomaterials</i> , 2020, 10, 2233. | 4.1 | 10 |
| 26 | Time-gated luminescence imaging of positively charged poly-L-lysine-coated highly microporous silicon nanoparticles in living Hydra polyp. <i>Journal of Biophotonics</i> , 2020, 13, e202000272. | 2.3 | 10 |
| 27 | Synthesis of mixed-sequence oligonucleotides on mesoporous silicon: chemical strategies and material stability. <i>Nanoscale Research Letters</i> , 2014, 9, 317. | 5.7 | 9 |
| 28 | Bioconjugation of a PNA Probe to Zinc Oxide Nanowires for Label-Free Sensing. <i>Nanomaterials</i> , 2021, 11, 523. | 4.1 | 9 |
| 29 | Exploring the Parallel G-Quadruplex Nucleic Acid World: A Spectroscopic and Computational Investigation on the Binding of the c-myc Oncogene NHE III1 Region by the Phytochemical Polydatin. <i>Molecules</i> , 2022, 27, 2997. | 3.8 | 9 |
| 30 | Nanogravimetric and Optical Characterizations of Thrombin Interaction with a Self-Assembled Thiolated Aptamer. <i>Journal of Sensors</i> , 2016, 2016, 1-8. | 1.1 | 8 |
| 31 | Toward Multi-Parametric Porous Silicon Transducers Based on Covalent Grafting of Graphene Oxide for Biosensing Applications. <i>Frontiers in Chemistry</i> , 2018, 6, 583. | 3.6 | 8 |
| 32 | π-π stacked DNA G-wire nanostructures formed by a short G-rich oligonucleotide containing a 3 rd inversion of polarity site. <i>Organic Chemistry Frontiers</i> , 2020, 7, 2187-2195. | 4.5 | 8 |
| 33 | Photoemissive properties and stability of undecylenic acid-modified porous silicon nanoparticles in physiological medium. <i>Applied Physics Letters</i> , 2019, 114, . | 3.3 | 6 |
| 34 | Probing the DNA Reactivity and the Anticancer Properties of a Novel Tubercidin-Pt(II) Complex. <i>Pharmaceutics</i> , 2020, 12, 627. | 4.5 | 6 |
| 35 | Covalent grafting of graphene oxide on functionalized macroporous silicon. <i>Open Material Sciences</i> , 2018, 4, 15-22. | 0.8 | 5 |
| 36 | Synthesis and Surface Modification of Nanostructured F-Doped ZnO: Toward a Transducer for Label-Free Optical Biosensing. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3380. | 2.5 | 5 |

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|----|---|------|-----------|
| 37 | Antiproliferative Activity of Mycalin A and Its Analogues on Human Skin Melanoma and Human Cervical Cancer Cells. <i>Marine Drugs</i> , 2020, 18, 402. | 4.6 | 5 |
| 38 | Hybrid Organic/Inorganic Nanomaterials for Biochemical Sensing. <i>Lecture Notes in Electrical Engineering</i> , 2021, , 93-99. | 0.4 | 4 |
| 39 | Probing the Ca ²⁺ mobilizing properties on primary cortical neurons of a new stable cADPR mimic. <i>Bioorganic Chemistry</i> , 2021, 117, 105401. | 4.1 | 3 |
| 40 | A silicon-based peptide biosensor for label-free detection of cancer cells. , 2015, , . | | 2 |
| 41 | Microneedles Drug Delivery: Polymeric Microneedle Arrays: Versatile Tools for an Innovative Approach to Drug Administration (<i>Adv. Therap.</i> 8/2019). <i>Advanced Therapeutics</i> , 2019, 2, 1970018. | 3.2 | 2 |
| 42 | CHAPTER 9. Diatoms: A Natural Source of Nanostructured Silica for Drug Delivery. <i>RSC Nanoscience and Nanotechnology</i> , 0, , 201-218. | 0.2 | 2 |
| 43 | O6-[(2- ³ -O-isopropylidene-5- ³ -O-tbutyldimethylsilyl)pentyl]-5- ² -O-tbutyldiphenylsilyl-2- ³ -O-isopropylideneinosine. <i>MolBank</i> , 2022, 2022, M1345. | 0.5 | 2 |
| 44 | Natural and synthetic nanostructured materials for biomedical applications. , 2015, , . | | 1 |
| 45 | Diatomite nanoparticles as potential drug delivery systems. , 2015, , . | | 1 |
| 46 | 5- ² -Chloro-5- ² -deoxy-2- ³ -O-isopropylidene-6-fluoro nebularine. <i>MolBank</i> , 2019, 2019, M1097. | 0.5 | 1 |
| 47 | Bioconjugation of Peptides to Hybrid Gold Nanoparticles. <i>Methods in Molecular Biology</i> , 2021, 2355, 105-115. | 0.9 | 1 |
| 48 | Diatomite-based nanoparticles: Fabrication strategies for medical applications. , 2022, , 427-446. | | 1 |
| 49 | Aminosilane-modified mesoporous oxidized silicon for in situ oligonucleotides synthesis and detection. , 2014, , . | | 0 |
| 50 | Bioengineered Surfaces for Real-Time Label-Free Detection of Cancer Cells. , 0, , . | | 0 |
| 51 | In Vivo Toxicity: In Vivo Toxicity Assessment of Hybrid Diatomite Nanovectors Using <i>Hydra vulgaris</i> as a Model System (<i>Adv. Biosys.</i> 4/2019). <i>Advanced Biology</i> , 2019, 3, 1970042. | 3.0 | 0 |
| 52 | SERS Quantification of Galunisertib Delivery in Colorectal Cancer Cells by Plasmonic-Assisted Diatomite Nanoparticles (<i>Small</i> 34/2021). <i>Small</i> , 2021, 17, 2170178. | 10.0 | 0 |
| 53 | Diatomite nanovectors uptake in cancer cells: a Raman imaging study. , 2018, , . | | 0 |
| 54 | Design and Synthesis of a cADPR Mimic as a Novel Tool for Monitoring the Intracellular Ca ²⁺ Concentration. <i>Proceedings (mdpi)</i> , 2020, 79, . | 0.2 | 0 |