# Loriano Storchi

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/10426/publications.pdf

Version: 2024-02-01

| | | 394286 | 276775 |
|---|---|---|---|
| 75 | 1,776 | 19 | 41 |
| papers | citations | h-index | g-index |

| | | | |
|---|---|---|---|
| 81 | 81 | 81 | 3905 |
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | The BondMachine, a moldable computer architecture. Parallel Computing, 2022, 109, 102873. | 1.3 | 1 |
| 2 | Randentropy: A Software to Measure Inequality in Random Systems. Informatica, 2022, , 1-20. | 1.5 | 0 |
| 3 | Toward machine learning for microscopic mechanisms: A formula search for crystal structure stability based on atomic properties. Journal of Applied Physics, 2022, 131, . | 1.1 | 2 |
| 4 | The CMS Phase-1 pixel detector upgrade. Journal of Instrumentation, 2021, 16, P02027-P02027. | 0.5 | 25 |
| 5 | Hampering the early aggregation of PrP-E200K protein by charge-based inhibitors: a computational study. Journal of Computer-Aided Molecular Design, 2021, 35, 751-770. | 1.3 | 4 |
| 6 | Combining machine learning and quantum mechanics yields more <scp>chemically aware</scp> molecular descriptors for medicinal chemistry applications. Journal of Computational Chemistry, 2021, 42, 2068-2078. | 1.5 | 6 |
| 7 | Reactivity of antitumor coinage metal-based N-heterocyclic carbene complexes with cysteine and selenocysteine protein sites. Journal of Inorganic Biochemistry, 2021, 223, 111533. | 1.5 | 22 |
| 8 | Reinforcement Learning for Smart Caching at the CMS experiment. , 2021, , . | | 1 |
| 9 | Spinâ€“orbit coupling is the key to unraveling intriguing features of the halogen bond involving astatine. Physical Chemistry Chemical Physics, 2020, 22, 1897-1910. | 1.3 | 13 |
| 10 | Beam test performance of prototype silicon detectors for the Outer Tracker for the Phase-2 Upgrade of CMS. Journal of Instrumentation, 2020, 15, P03014-P03014. | 0.5 | 6 |
| 11 | Experimental study of different silicon sensor options for the upgrade of the CMS Outer Tracker. Journal of Instrumentation, 2020, 15, P04017-P04017. | 0.5 | 5 |
| 12 | Environmental Effects with Frozen-Density Embedding in Real-Time Time-Dependent Density Functional Theory Using Localized Basis Functions. Journal of Chemical Theory and Computation, 2020, 16, 5695-5711. | 2.3 | 12 |
| 13 | The Role of APOSTART in Switching between Sexuality and Apomixis in Poa pratensis. Genes, 2020, 11, 941. | 1.0 | 7 |
| 14 | Characterization of PD-L1 binding sites by a combined FMO/GRID-DRY approach. Journal of Computer-Aided Molecular Design, 2020, 34, 897-914. | 1.3 | 15 |
| 15 | PyBERTHART: A Relativistic Real-Time Four-Component TDDFT Implementation Using Prototyping Techniques Based on Python. Journal of Chemical Theory and Computation, 2020, 16, 2410-2429. | 2.3 | 17 |
| 16 | BERTHA: Implementation of a four-component Diracâ€“Kohnâ€“Sham relativistic framework. Journal of Chemical Physics, 2020, 152, 164118. | 1.2 | 24 |
| 17 | BERTHA and PyBERTHA: State of the Art for Full Four-Component Dirac-Kohn-Sham Calculations. Advances in Parallel Computing, 2020, , . | 0.3 | 2 |
| 18 | The Chemical Bond and sâ€“d Hybridization in Coinage Metal(I) Cyanides. Inorganic Chemistry, 2019, 58, 11716-11729. | 1.9 | 17 |

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|---|---|---|---|
| 19 | A database approach for materials selection for hydrogen storage in aerospace technology. Rendiconti Lincei, 2019, 30, 287-296. | 1.0 | 6 |
| 20 | The DAQ and control system for the CMS Phase-1 pixel detector upgrade. Journal of Instrumentation, 2019, 14, P10017-P10017. | 0.5 | 2 |
| 21 | Computational investigations of bioinorganic complexes: The case of calcium, gold and platinum ions. AIP Conference Proceedings, 2019, , . | 0.3 | 18 |
| 22 | A Copula-based Markov Reward Approach to the Credit Spread in the European Union. Applied Mathematical Finance, 2019, 26, 359-386. | 0.8 | 1 |
| 23 | A model of the three-dimensional structure of human interferon responsive factor 1 and its modifications upon phosphorylation or phosphorylation-mimicking mutations. Journal of Biomolecular Structure and Dynamics, 2019, 37, 4632-4643. | 2.0 | 0 |
| 24 | An insight of early PrPâ€ƒ200K aggregation by combined molecular dynamics/fragment molecular orbital approaches. Proteins: Structure, Function and Bioinformatics, 2019, 87, 51-61. | 1.5 | 14 |
| 25 | On the Sensitivity of a Dynamic Measure of Financial Inequality. Journal of Mathematics and Statistics, 2019, 15, 280-297. | 0.2 | 0 |
| 26 | The BondMachine toolkit: Enabling Machine Learning on FPGA. , 2019, , . | | 0 |
| 27 | Financial risk distribution in European Union. Physica A: Statistical Mechanics and Its Applications, 2018, 505, 252-267. | 1.2 | 7 |
| 28 | Charge-Displacement Analysis via Natural Orbitals for Chemical Valence in the Four-Component Relativistic Framework. Journal of Chemical Theory and Computation, 2018, 14, 1286-1296. | 2.3 | 22 |
| 29 | Relativistic quantum chemistry involving heavy atoms. Rendiconti Lincei, 2018, 29, 209-217. | 1.0 | 3 |
| 30 | Effect of pomegranate peel extract on shelf life of strawberries: computational chemistry approaches to assess antifungal mechanisms involved. Journal of Food Science and Technology, 2018, 55, 2702-2711. | 1.4 | 16 |
| 31 | Precision measurement of the structure of the CMS inner tracking system using nuclear interactions. Journal of Instrumentation, 2018, 13, P10034-P10034. | 0.5 | 11 |
| 32 | Test beam demonstration of silicon microstrip modules with transverse momentum discrimination for the future CMS tracking detector. Journal of Instrumentation, 2018, 13, P03003-P03003. | 0.5 | 4 |
| 33 | A Continuous-Time Inequality Measure Applied to Financial Risk: The Case of the European Union. International Journal of Financial Studies, 2018, 6, 62. | 1.1 | 2 |
| 34 | A Real-Time Demonstrator for Track Reconstruction in the CMS L1 Track-Trigger System Based on Custom Associative Memories and High-Performance FPGAs. , 2018, , . | | 1 |
| 35 | Harvesting dispersed computational resources with Openstack: a Cloud infrastructure for the Computational Science community. , 2018, , . | | 0 |
| 36 | Track finding mezzanine for Level-1 triggering in HL-LHC experiments. , 2017, , . | | 0 |

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|---|---|---|---|
| 37 | P-Type Silicon Strip Sensors for the new CMS Tracker at HL-LHC. Journal of Instrumentation, 2017, 12, P06018-P06018. | 0.5 | 24 |
| 38 | Mechanical stability of the CMS strip tracker measured with a laser alignment system. Journal of Instrumentation, 2017, 12, P04023-P04023. | 0.5 | 0 |
| 39 | Test beam performance measurements for the Phase I upgrade of the CMS pixel detector. Journal of Instrumentation, 2017, 12, P05022-P05022. | 0.5 | 5 |
| 40 | Characterisation of irradiated thin silicon sensors for the CMS phase II pixel upgrade. European Physical Journal C, 2017, 77, 1. | 1.4 | 4 |
| 41 | Automated Simulation of Gas-Phase Reactions on Distributed and Cloud Computing Infrastructures. Lecture Notes in Computer Science, 2017, , 60-73. | 1.0 | 2 |
| 42 | Trapping in proton irradiated p+-n-n+silicon sensors at fluences anticipated at the HL-LHC outer tracker. Journal of Instrumentation, 2016, 11, P04023-P04023. | 0.5 | 8 |
| 43 | A pattern recognition mezzanine based on associative memory and FPGA technology for L1 track triggering at HL-LHC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 824, 284-286. | 0.7 | 1 |
| 44 | A Pattern Recognition Mezzanine based on Associative Memory and FPGA technology for Level 1 Track Triggers for the HL-LHC upgrade. Journal of Instrumentation, 2016, 11, C02063-C02063. | 0.5 | 2 |
| 45 | The Effects of Ca2+ Concentration and E200K Mutation on the Aggregation Propensity of PrPC: A Computational Study. PLoS ONE, 2016, 11, e0168039. | 1.1 | 9 |
| 46 | Impact of low-dose electron irradiation on n+p silicon strip sensors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 803, 100-112. | 0.7 | 6 |
| 47 | Investigation of the molecular similarity in closely related protein systems: The PrP case study. Proteins: Structure, Function and Bioinformatics, 2015, 83, 1751-1765. | 1.5 | 14 |
| 48 | Modeling Mesoporous Nanoparticulated TiO2Films through Nanopolyhedra Random Packing. Journal of Physical Chemistry C, 2015, 119, 10716-10726. | 1.5 | 4 |
| 49 | Goldâ€“superheavy-element interaction in diatomics and cluster adducts: A combined four-component Dirac-Kohn-Sham/charge-displacement study. Journal of Chemical Physics, 2015, 143, 024307. | 1.2 | 17 |
| 50 | A cloud-based solution for public administrations: The experience of the Regione Marche. , 2014, , . | | 3 |
| 51 | Full Parallel Implementation of an All-Electron Four-Component Diracâ€“Kohnâ€“Sham Program. Journal of Chemical Theory and Computation, 2014, 10, 3766-3776. | 2.3 | 21 |
| 52 | Shape and Morphology Effects on the Electronic Structure of TiO<sub>2</sub> Nanostructures: From Nanocrystals to Nanorods. ACS Applied Materials & Interfaces, 2014, 6, 2471-2478. | 4.0 | 22 |
| 53 | Inherent electronic trap states in TiO2 nanocrystals: effect of saturation and sintering. Energy and Environmental Science, 2013, 6, 1221. | 15.6 | 76 |
| 54 | Efficient Parallel All-Electron Four-Component Diracâ€“Kohnâ€“Sham Program Using a Distributed Matrix Approach II. Journal of Chemical Theory and Computation, 2013, 9, 5356-5364. | 2.3 | 21 |

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| 55 | Scientific objectives of Einstein Telescope. Classical and Quantum Gravity, 2012, 29, 124013. | 1.5 | 355 |
| 56 | Recent advances and perspectives in four-component Diracâ€“Kohnâ€“Sham calculations. Physical Chemistry Chemical Physics, 2011, 13, 12368. | 1.3 | 59 |
| 57 | Radiationless decay in the region of the 2t2g and 4eg resonances in SF6. Journal of Chemical Physics, 2011, 134, 094308. | 1.2 | 5 |
| 58 | Extending pKa prediction accuracy: High-throughput pKa measurements to understand pKa modulation of new chemical series. European Journal of Medicinal Chemistry, 2010, 45, 4270-4279. | 2.6 | 107 |
| 59 | An Efficient Parallel All-Electron Four-Component Diracâ˜Kohnâ˜Sham Program Using a Distributed Matrix Approach. Journal of Chemical Theory and Computation, 2010, 6, 384-394. | 2.3 | 27 |
| 60 | A photoelectron and double photoionization study of the valence electronic structure of 1,4-bromofluorobenzene. Journal of Chemical Physics, 2009, 131, 184302. | 1.2 | 4 |
| 61 | Molecular photoionization cross sections by Stieltjesâ€“Chebyshev moment theory applied to Lanczos pseudospectra. Journal of Chemical Physics, 2009, 130, 064104. | 1.2 | 37 |
| 62 | Implementation and use of a direct, partially integralâ€driven nonâ€Dyson propagator method for molecular ionization. Journal of Computational Chemistry, 2009, 30, 818-825. | 1.5 | 9 |
| 63 | In silico pK<sub>a</sub> Prediction and ADME Profiling. Chemistry and Biodiversity, 2009, 6, 1812-1821. | 1.0 | 70 |
| 64 | Predicting protein pK<sub>a</sub> by environment similarity. Proteins: Structure, Function and Bioinformatics, 2009, 76, 484-495. | 1.5 | 20 |
| 65 | Tautomer Enumeration and Stability Prediction for Virtual Screening on Large Chemical Databases. Journal of Chemical Information and Modeling, 2009, 49, 68-75. | 2.5 | 119 |
| 66 | Multitechnique investigation of the valence and inner shell excitation, ionization and decay of halogenated pyrimidines. Journal of Physics: Conference Series, 2009, 194, 022057. | 0.3 | 0 |
| 67 | The Auger spectroscopy of pyrimidine and halogen-substituted pyrimidines. Journal of Chemical Physics, 2008, 129, 154309. | 1.2 | 28 |
| 68 | Double photoionization of thiophene and bromine-substituted thiophenes. Journal of Chemical Physics, 2008, 129, 234303. | 1.2 | 7 |
| 69 | New and Original pK<sub>a</sub> Prediction Method Using Grid Molecular Interaction Fields. Journal of Chemical Information and Modeling, 2007, 47, 2172-2181. | 2.5 | 277 |
| 70 | Site-selected Auger electron spectroscopy of N2O. Journal of Chemical Physics, 2006, 125, 054306. | 1.2 | 20 |
| 71 | An experimental and theoretical study of double photoionization of CF4 using time-of-flight photoelectron-photoelectron (photoion-photoion) coincidence spectroscopy. Journal of Chemical Physics, 2006, 125, 194318. | 1.2 | 26 |
| 72 | Complete valence double photoionization of SF6. Journal of Chemical Physics, 2005, 122, 144309. | 1.2 | 29 |

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|---|---|---|---|
| 73 | Effects of nuclear dynamics in the low-kinetic-energy Auger spectra of CO and CO2. Journal of Chemical Physics, 2005, 123, 224306. | 1.2 | 19 |
| 74 | Parallelization of a relativistic DFT code. Future Generation Computer Systems, 2004, 20, 739-747. | 4.9 | 14 |
| 75 | Linear Algebra Computation Benchmarks on a Model Grid Platform. Lecture Notes in Computer Science, 2003, , 297-306. | 1.0 | 8 |