# Alisa Rupenyan

List of Publications by Year
in descending order

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Version: 2024-02-01

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|---|---|---|---|
| 30 papers | 1,174 citations | 567281 15 h-index | 642732 23 g-index |
| 30 all docs | 30 docs citations | 30 times ranked | 1381 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Performance-Driven Cascade Controller Tuning With Bayesian Optimization. IEEE Transactions on Industrial Electronics, 2022, 69, 1032-1042. | 7.9 | 33 |
| 2 | Autonomous and data-efficient optimization of turning processes using expert knowledge and transfer learning. Journal of Materials Processing Technology, 2022, 303, 117540. | 6.3 | 9 |
| 3 | On Robustness in Optimization-Based Constrained Iterative Learning Control. , 2022, 6, 2846-2851. | | 6 |
| 4 | Learning-Based Repetitive Precision Motion Control with Mismatch Compensation. , 2021, , . | | 2 |
| 5 | Performance-based Trajectory Optimization for Path Following Control Using Bayesian Optimization. , 2021, , . | | 8 |
| 6 | Machine Tool Component Health Identification with Unsupervised Learning. Journal of Manufacturing and Materials Processing, 2020, 4, 86. | 2.2 | 8 |
| 7 | Turning: Autonomous process set-up through Bayesian optimization and Gaussian process models. Procedia CIRP, 2020, 88, 306-311. | 1.9 | 6 |
| 8 | Self-optimizing grinding machines using Gaussian process models and constrained Bayesian optimization. International Journal of Advanced Manufacturing Technology, 2020, 108, 539-552. | 3.0 | 16 |
| 9 | Optimization-Based Hierarchical Motion Planning for Autonomous Racing. , 2020, , . | | 28 |
| 10 | Reference design for closed loop system optimization. , 2020, , . | | 1 |
| 11 | Cascade Control: Data-Driven Tuning Approach Based on Bayesian Optimization. IFAC-PapersOnLine, 2020, 53, 382-387. | 0.9 | 12 |
| 12 | Bayesian optimization for autonomous process set-up in turning. CIRP Journal of Manufacturing Science and Technology, 2019, 26, 81-87. | 4.5 | 21 |
| 13 | Real-Time Predictive Control for Precision Machining. , 2019, , . | | 4 |
| 14 | Discriminating Oat and Groat Kernels from Other Grains Using Nearâ€Infrared Spectroscopy. Cereal Chemistry, 2017, 94, 458-463. | 2.2 | 2 |
| 15 | Machine Vision Combined with Near-Infrared Spectroscopy to Guarantee Food Safety. Cereal Foods World, 2016, 61, 140-142. | 0.2 | 1 |
| 16 | Attosecond charge migration and its laser control. Journal of Physics: Conference Series, 2015, 635, 112136. | 0.4 | 1 |
| 17 | Observation of laser-induced electronic structure in oriented polyatomic molecules. Nature Communications, 2015, 6, 7039. | 12.8 | 68 |
| 18 | Measurement and laser control of attosecond charge migration in ionized iodoacetylene. Science, 2015, 350, 790-795. | 12.6 | 463 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | The structure of salt bridges between Arg+ and Gluâ^' in peptides investigated with 2D-IR spectroscopy: Evidence for two distinct hydrogen-bond geometries. Journal of Chemical Physics, 2015, 142, 212444. | 3.0 | 21 |
| 20 | Quantum interference and multielectron effects in high-harmonic spectra of polar molecules. Physical Review A, 2013, 87, . | 2.5 | 55 |
| 21 | High-harmonic spectroscopy of isoelectronic molecules: Wavelength scaling of electronic-structure and multielectron effects. Physical Review A, 2013, 87, . | 2.5 | 48 |
| 22 | All-Optical Measurement of High-Harmonic Amplitudes and Phases in Aligned Molecules. Physical Review Letters, 2012, 108, 033903. | 7.8 | 44 |
| 23 | High-Harmonic Spectroscopy of Oriented OCS Molecules: Emission of Even and Odd Harmonics. Physical Review Letters, 2012, 109, 233903. | 7.8 | 111 |
| 24 | Primary Reactions of Bacteriophytochrome Observed with Ultrafast Mid-Infrared Spectroscopy. Journal of Physical Chemistry A, 2011, 115, 3778-3786. | 2.5 | 43 |
| 25 | Proline 68 Enhances Photoisomerization Yield in Photoactive Yellow Protein. Journal of Physical Chemistry B, 2011, 115, 6668-6677. | 2.6 | 17 |
| 26 | Reaction Pathways of Photoexcited Retinal in Proteorhodopsin Studied by Pumpâ^'Dumpâ^'Probe Spectroscopy. Journal of Physical Chemistry B, 2009, 113, 16251-16256. | 2.6 | 19 |
| 27 | CO Photodissociation Dynamics in Cytochrome P450BM3 Studied by Subpicosecond Visible and Mid-Infrared Spectroscopy. Biochemistry, 2009, 48, 6104-6110. | 2.5 | 7 |
| 28 | Characterization of the Primary Photochemistry of Proteorhodopsin with Femtosecond Spectroscopy. Biophysical Journal, 2008, 94, 4020-4030. | 0.5 | 35 |
| 29 | Raman spectroscopy studies of the OH stretching band of aqueous solutions of short poly(oxyethyelene) C 2 E 2 C 2. , 2005, , . | | 0 |
| 30 | Investigation of the protonation site in the dialanine peptide by infrared multiphoton dissociation spectroscopy. Physical Chemistry Chemical Physics, 2004, 6, 2659-2663. | 2.8 | 85 |