

Alisa Rupenyan

List of Publications by Year in descending order

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Version: 2024-02-01

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	Measurement and laser control of attosecond charge migration in ionized iodoacetylene. <i>Science</i> , 2015, 350, 790-795.	12.6	463
2	High-Harmonic Spectroscopy of Oriented OCS Molecules: Emission of Even and Odd Harmonics. <i>Physical Review Letters</i> , 2012, 109, 233903.	7.8	111
3	Investigation of the protonation site in the dialanine peptide by infrared multiphoton dissociation spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 2659-2663.	2.8	85
4	Observation of laser-induced electronic structure in oriented polyatomic molecules. <i>Nature Communications</i> , 2015, 6, 7039.	12.8	68
5	Quantum interference and multielectron effects in high-harmonic spectra of polar molecules. <i>Physical Review A</i> , 2013, 87, .	2.5	55
6	High-harmonic spectroscopy of isoelectronic molecules: Wavelength scaling of electronic-structure and multielectron effects. <i>Physical Review A</i> , 2013, 87, .	2.5	48
7	All-Optical Measurement of High-Harmonic Amplitudes and Phases in Aligned Molecules. <i>Physical Review Letters</i> , 2012, 108, 033903.	7.8	44
8	Primary Reactions of Bacteriophytochrome Observed with Ultrafast Mid-Infrared Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2011, 115, 3778-3786.	2.5	43
9	Characterization of the Primary Photochemistry of Proteorhodopsin with Femtosecond Spectroscopy. <i>Biophysical Journal</i> , 2008, 94, 4020-4030.	0.5	35
10	Performance-Driven Cascade Controller Tuning With Bayesian Optimization. <i>IEEE Transactions on Industrial Electronics</i> , 2022, 69, 1032-1042.	7.9	33
11	Optimization-Based Hierarchical Motion Planning for Autonomous Racing. , 2020, , .		28
12	The structure of salt bridges between Arg ⁺ and Glu ⁻ in peptides investigated with 2D-IR spectroscopy: Evidence for two distinct hydrogen-bond geometries. <i>Journal of Chemical Physics</i> , 2015, 142, 212444.	3.0	21
13	Bayesian optimization for autonomous process set-up in turning. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2019, 26, 81-87.	4.5	21
14	Reaction Pathways of Photoexcited Retinal in Proteorhodopsin Studied by Pump-Dump-Probe Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2009, 113, 16251-16256.	2.6	19
15	Proline 68 Enhances Photoisomerization Yield in Photoactive Yellow Protein. <i>Journal of Physical Chemistry B</i> , 2011, 115, 6668-6677.	2.6	17
16	Self-optimizing grinding machines using Gaussian process models and constrained Bayesian optimization. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 108, 539-552.	3.0	16
17	Cascade Control: Data-Driven Tuning Approach Based on Bayesian Optimization. <i>IFAC-PapersOnLine</i> , 2020, 53, 382-387.	0.9	12
18	Autonomous and data-efficient optimization of turning processes using expert knowledge and transfer learning. <i>Journal of Materials Processing Technology</i> , 2022, 303, 117540.	6.3	9

#	ARTICLE	IF	CITATIONS
19	Machine Tool Component Health Identification with Unsupervised Learning. Journal of Manufacturing and Materials Processing, 2020, 4, 86.	2.2	8
20	Performance-based Trajectory Optimization for Path Following Control Using Bayesian Optimization. , 2021, , .		8
21	CO Photodissociation Dynamics in Cytochrome P450BM3 Studied by Subpicosecond Visible and Mid-Infrared Spectroscopy. Biochemistry, 2009, 48, 6104-6110.	2.5	7
22	Turning: Autonomous process set-up through Bayesian optimization and Gaussian process models. Procedia CIRP, 2020, 88, 306-311.	1.9	6
23	On Robustness in Optimization-Based Constrained Iterative Learning Control. , 2022, 6, 2846-2851.		6
24	Real-Time Predictive Control for Precision Machining. , 2019, , .		4
25	Discriminating Oat and Groat Kernels from Other Grains Using Near-Infrared Spectroscopy. Cereal Chemistry, 2017, 94, 458-463.	2.2	2
26	Learning-Based Repetitive Precision Motion Control with Mismatch Compensation. , 2021, , .		2
27	Attosecond charge migration and its laser control. Journal of Physics: Conference Series, 2015, 635, 112136.	0.4	1
28	Machine Vision Combined with Near-Infrared Spectroscopy to Guarantee Food Safety. Cereal Foods World, 2016, 61, 140-142.	0.2	1
29	Reference design for closed loop system optimization. , 2020, , .		1
30	Raman spectroscopy studies of the OH stretching band of aqueous solutions of short poly(oxyethylene) C 2 E 2 C 2. , 2005, , .		0