

# Kristofer G Reyes

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7111036/publications.pdf>

Version: 2024-02-01

18  
papers

778  
citations

840776

11  
h-index

940533

16  
g-index

19  
all docs

19  
docs citations

19  
times ranked

778  
citing authors

#	ARTICLE	IF	CITATIONS
1	Artificial Chemist: An Autonomous Quantum Dot Synthesis Bot. <i>Advanced Materials</i> , 2020, 32, e2001626.	21.0	170
2	Autonomous experimentation systems for materials development: A community perspective. <i>Matter</i> , 2021, 4, 2702-2726.	10.0	143
3	A Bayesian experimental autonomous researcher for mechanical design. <i>Science Advances</i> , 2020, 6, eaaz1708.	10.3	127
4	Prediction of Nanoscale Friction for Two-Dimensional Materials Using a Machine Learning Approach. <i>Tribology Letters</i> , 2020, 68, 1.	2.6	80
5	Self-Driven Multistep Quantum Dot Synthesis Enabled by Autonomous Robotic Experimentation in Flow. <i>Advanced Intelligent Systems</i> , 2021, 3, 2000245.	6.1	58
6	The machine learning revolution in materials?. <i>MRS Bulletin</i> , 2019, 44, 530-537.	3.5	45
7	Using simulation to accelerate autonomous experimentation: A case study using mechanics. <i>IScience</i> , 2021, 24, 102262.	4.1	35
8	Accelerated AI development for autonomous materials synthesis in flow. <i>Chemical Science</i> , 2021, 12, 6025-6036.	7.4	35
9	Optimization of a novel biophysical model using large scale in vivo antisense hybridization data displays improved prediction capabilities of structurally accessible RNA regions. <i>Nucleic Acids Research</i> , 2017, 45, 5523-5538.	14.5	23
10	Nested-Batch-Mode Learning and Stochastic Optimization with An Application to Sequential MultiStage Testing in Materials Science. <i>SIAM Journal of Scientific Computing</i> , 2015, 37, B361-B381.	2.8	21
11	Autonomous Nanocrystal Doping by Self-Driving Fluidic Micro-Processors. <i>Advanced Intelligent Systems</i> , 2022, 4, .	6.1	16
12	Advanced machine learning decision policies for diameter control of carbon nanotubes. <i>Npj Computational Materials</i> , 2021, 7, .	8.7	11
13	Optimal Learning with Local Nonlinear Parametric Models over Continuous Designs. <i>SIAM Journal of Scientific Computing</i> , 2020, 42, A2134-A2157.	2.8	4
14	Machine-Learning Assisted Exploration: Toward the Next-Generation Catalyst for Hydrogen Evolution Reaction. <i>Journal of the Electrochemical Society</i> , 2021, 168, 126523.	2.9	4
15	A Knowledge Gradient Policy for Sequencing Experiments to Identify the Structure of RNA Molecules Using a Sparse Additive Belief Model. <i>INFORMS Journal on Computing</i> , 2018, 30, 750-767.	1.7	2
16	Problem-fluent models for complex decision-making in autonomous materials research. <i>Computational Materials Science</i> , 2021, 193, 110385.	3.0	2
17	Data-driven visualization schema of a materials informatics curriculum: Convergence of materials science and information science. <i>MRS Advances</i> , 2020, 5, 293-303.	0.9	0
18	Decision-Making Under Uncertainty for Multi-stage Pipelines: Simulation Studies to Benchmark Screening Strategies. <i>Jom</i> , 0, , .	1.9	0