

# Stefano Ermon

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7199891/publications.pdf>

Version: 2024-02-01

25  
papers

3,412  
citations

933447

10  
h-index

1281871

11  
g-index

25  
all docs

25  
docs citations

25  
times ranked

4632  
citing authors

#	ARTICLE	IF	CITATIONS
1	Combining satellite imagery and machine learning to predict poverty. <i>Science</i> , 2016, 353, 790-794.	12.6	938
2	Closed-loop optimization of fast-charging protocols for batteries with machine learning. <i>Nature</i> , 2020, 578, 397-402.	27.8	470
3	Coupling between oxygen redox and cation migration explains unusual electrochemistry in lithium-rich layered oxides. <i>Nature Communications</i> , 2017, 8, 2091.	12.8	469
4	Rapid identification of pathogenic bacteria using Raman spectroscopy and deep learning. <i>Nature Communications</i> , 2019, 10, 4927.	12.8	416
5	High-Voltage Charging-Induced Strain, Heterogeneity, and Micro-Cracks in Secondary Particles of a Nickel-Rich Layered Cathode Material. <i>Advanced Functional Materials</i> , 2019, 29, 1900247.	14.9	219
6	Using publicly available satellite imagery and deep learning to understand economic well-being in Africa. <i>Nature Communications</i> , 2020, 11, 2583.	12.8	158
7	End-to-End Learning of Motion Representation for Video Understanding. , 2018, , .		152
8	Using satellite imagery to understand and promote sustainable development. <i>Science</i> , 2021, 371, , .	12.6	138
9	Deep Transfer Learning for Crop Yield Prediction with Remote Sensing Data. , 2018, , .		117
10	Efficient Object Detection in Large Images Using Deep Reinforcement Learning. , 2020, , .		59
11	Generating Interpretable Poverty Maps using Object Detection in Satellite Images. , 2020, , .		37
12	Cloud Removal in Satellite Images Using Spatiotemporal Generative Networks. , 2020, , .		36
13	Predicting Economic Development using Geolocated Wikipedia Articles. , 2019, , .		31
14	Infrastructure Quality Assessment in Africa using Satellite Imagery and Deep Learning. , 2018, , .		29
15	Learning When and Where to Zoom With Deep Reinforcement Learning. , 2020, , .		25
16	Unsupervised Data Mining in nanoscale X-ray Spectro-Microscopic Study of NdFeB Magnet. <i>Scientific Reports</i> , 2016, 6, 34406.	3.3	23
17	Monitoring Ethiopian Wheat Fungus with Satellite Imagery and Deep Feature Learning. , 2017, , .		18
18	Scalable deep learning to identify brick kilns and aid regulatory capacity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	16

#	ARTICLE	IF	CITATIONS
19	Mapping Missing Population in Rural India. , 2019, , .		15
20	Farm Parcel Delineation Using Spatio-temporal Convolutional Networks. , 2020, , .		14
21	Learning to Interpret Satellite Images using Wikipedia. , 2019, , .		13
22	Hierarchical modeling of seed variety yields and decision making for future planting plans. Environment Systems and Decisions, 2018, 38, 458-470.	3.4	11
23	Domain Adaptation for Human Fall Detection Using WiFi Channel State Information. Studies in Computational Intelligence, 2020, , 177-181.	0.9	4
24	Adversarial Constraint Learning for Structured Prediction. , 2018, , .		3
25	Challenges in KDD and ML for Sustainable Development. , 2021, , .		1