

# Upendra N Singh

## List of Publications by Year in descending order

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Version: 2024-02-01

22  
papers

580  
citations

1039880

9  
h-index

1199470

12  
g-index

22  
all docs

22  
docs citations

22  
times ranked

310  
citing authors

#	ARTICLE	IF	CITATIONS
1	Airborne Testing of 2- $\mu$ m Pulsed IPDA Lidar for Active Remote Sensing of Atmospheric Carbon Dioxide. Atmosphere, 2021, 12, 412.	1.0	10
2	High-Precision and High-Accuracy Column Dry-Air Mixing Ratio Measurement of Carbon Dioxide Using Pulsed 2- $\mu$ m IPDA Lidar. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 5804-5819.	2.7	6
3	Active Optical Remote Sensing Sensors and Instrumentation for NASA's Future Earth and Space Science Measurements/Missions. , 2019, , .		0
4	Frequency Control of Multi-Pulse 2-micron Laser Transmitter for Atmospheric Carbon Dioxide Measurement. , 2019, , .		0
5	Evaluation of 2- $\mu$ m Pulsed Integrated Path Differential Absorption Lidar for Carbon Dioxide Measurement—Technology Developments, Measurements, and Path to Space. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 2059-2067.	2.3	4
6	MCT Avalanche Photodiode Detector FOR Two-MICRON Active Remote Sensing Applications. , 2018, , .		2
7	Water Vapor Column Measurements With Infrared Active Optical IPDA Lidar. , 2018, , .		0
8	An Airborne 2- $\mu$ m Double-Pulsed Direct-Detection Lidar Instrument for Atmospheric CO <sub>2</sub> Column Measurements. Journal of Atmospheric and Oceanic Technology, 2017, 34, 385-400.	0.5	33
9	Triple-pulse integrated path differential absorption lidar for carbon dioxide measurement — Novel lidar technologies and techniques with path to space. , 2017, , .		1
10	Feasibility study of a space-based high pulse energy 2- $\mu$ m CO <sub>2</sub> IPDA lidar. Applied Optics, 2017, 56, 6531.		29
11	Development of Double-Pulsed Two-Micron Laser for Atmospheric Carbon Dioxide Measurements. , 2017, , .		1
12	Double-pulse 2- $\mu$ m integrated path differential absorption lidar airborne validation for atmospheric carbon dioxide measurement. Applied Optics, 2016, 55, 4232.	2.1	62
13	Evaluation of an airborne triple-pulsed 2- $\mu$ m IPDA lidar for simultaneous and independent atmospheric water vapor and carbon dioxide measurements. Applied Optics, 2015, 54, 1387.	0.9	79
14	Twenty years of Tm:Ho:YLF and LuLiF laser development for global wind and carbon dioxide active remote sensing. Optical Materials Express, 2015, 5, 827.	1.6	96
15	Self-calibration and laser energy monitor validations for a double-pulsed 2- $\mu$ m CO <sub>2</sub> integrated path differential absorption lidar application. Applied Optics, 2015, 54, 7240.	2.1	44
16	First International Workshop on Space-Based Lidar Remote Sensing Techniques and Emerging Technologies [Conference Reports]. IEEE Geoscience and Remote Sensing Magazine, 2014, 2, 91-93.	4.9	2
17	Backscatter 2- $\mu$ m Lidar Validation for Atmospheric CO <sub>2</sub> Differential Absorption Lidar Applications. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 572-580.	2.7	58
18	Progress on high-energy 2-micron solid state laser for NASA space-based wind and carbon dioxide measurements. , 2011, , .		2

#	ARTICLE	IF	CITATIONS
19	2.4- $\mu\text{m}$ -Cutoff AlGaAsSb/InGaAsSb Phototransistors for Shortwave-IR Applications. IEEE Transactions on Electron Devices, 2007, 54, 2837-2842.	1.6	0
20	1 J/pulse Q-switched 2 $\mu\text{m}$ solid-state laser. Optics Letters, 2006, 31, 462.	1.7	149
21	RECENT DEVELOPMENT OF SB-BASED PHOTOTRANSISTORS IN THE 0.9- TO 2.2- $\mu\text{m}$ WAVELENGTH RANGE FOR APPLICATIONS TO LASER REMOTE SENSING. , 2006, , .		0
22	An overview of NASA's laser risk reduction program. , 0, , .		2