Chlorophyll fluorescence observed by OCO-2 is strongly productivity estimated from flux towers in temperate f

Remote Sensing of Environment 204, 659-671 DOI: 10.1016/j.rse.2017.09.034

Citation Report

#	Article	IF	CITATIONS
1	Higher absorbed solar radiation partly offset the negative effects of water stress on the photosynthesis of Amazon forests during the 2015 drought. Environmental Research Letters, 2018, 13, 044005.	5.2	42
2	Reconstructed Solarâ€Induced Fluorescence: A Machine Learning Vegetation Product Based on MODIS Surface Reflectance to Reproduce GOMEâ€2 Solarâ€Induced Fluorescence. Geophysical Research Letters, 2018, 45, 3136-3146.	4.0	93
3	Use of Sun-Induced Chlorophyll Fluorescence Obtained by OCO-2 and GOME-2 for GPP Estimates of the Heihe River Basin, China. Remote Sensing, 2018, 10, 2039.	4.0	13
4	A global spatially contiguous solar-induced fluorescence (CSIF) dataset using neural networks. Biogeosciences, 2018, 15, 5779-5800.	3.3	217
5	Linking photosynthesis and sun-induced fluorescence at sub-daily to seasonal scales. Remote Sensing of Environment, 2018, 219, 247-258.	11.0	83
6	Effect of environmental conditions on sun-induced fluorescence in a mixed forest and a cropland. Remote Sensing of Environment, 2018, 219, 310-323.	11.0	77
7	Solarâ€Induced Fluorescence Detects Interannual Variation in Gross Primary Production of Coniferous Forests in the Western United States. Geophysical Research Letters, 2018, 45, 7184-7193.	4.0	49
8	Seasonal patterns of canopy photosynthesis captured by remotely sensed sun-induced fluorescence and vegetation indexes in mid-to-high latitude forests: A cross-platform comparison. Science of the Total Environment, 2018, 644, 439-451.	8.0	17
9	Solarâ€induced chlorophyll fluorescence is strongly correlated with terrestrial photosynthesis for a wide variety of biomes: First global analysis based on OCOâ€2 and flux tower observations. Global Change Biology, 2018, 24, 3990-4008.	9.5	264
10	Remote sensing of solar-induced chlorophyll fluorescence (SIF) in vegetation: 50†years of progress. Remote Sensing of Environment, 2019, 231, 111177.	11.0	372
11	Exploring the spatial relationship between airborne-derived red and far-red sun-induced fluorescence and process-based GPP estimates in a forest ecosystem. Remote Sensing of Environment, 2019, 231, 111272.	11.0	34
12	Exploring SMAP and OCO-2 observations to monitor soil moisture control on photosynthetic activity of global drylands and croplands. Remote Sensing of Environment, 2019, 232, 111314.	11.0	21
13	Diverse photosynthetic capacity of global ecosystems mapped by satellite chlorophyll fluorescence measurements. Remote Sensing of Environment, 2019, 232, 111344.	11.0	59
14	Using Solar-Induced Chlorophyll Fluorescence Observed by OCO-2 to Predict Autumn Crop Production in China. Remote Sensing, 2019, 11, 1715.	4.0	17
15	Spatiotemporal Patterns and Phenology of Tropical Vegetation Solar-Induced Chlorophyll Fluorescence across Brazilian Biomes Using Satellite Observations. Remote Sensing, 2019, 11, 1746.	4.0	21
16	Decoupling of the urban vegetation productivity from climate. Urban Forestry and Urban Greening, 2019, 44, 126428.	5.3	4
17	Mapping Photosynthesis Solely from Solar-Induced Chlorophyll Fluorescence: A Global, Fine-Resolution Dataset of Gross Primary Production Derived from OCO-2. Remote Sensing, 2019, 11, 2563.	4.0	153
18	Remote sensing of the terrestrial carbon cycle: A review of advances over 50 years. Remote Sensing of Environment, 2019, 233, 111383.	11.0	276

	CITATION R	CITATION REPORT	
#	Article	IF	CITATIONS
19	Evaluating the Performance of Satellite-Derived Vegetation Indices for Estimating Gross Primary Productivity Using FLUXNET Observations across the Globe. Remote Sensing, 2019, 11, 1823.	4.0	58
20	Effects of the Temporal Aggregation and Meteorological Conditions on the Parameter Robustness of OCO-2 SIF-Based and LUE-Based GPP Models for Croplands. Remote Sensing, 2019, 11, 1328.	4.0	6
21	Estimating vegetation productivity of urban regions using sun-induced chlorophyll fluorescence data derived from the OCO-2 satellite. Physics and Chemistry of the Earth, 2019, 114, 102783.	2.9	3
22	Phenology Dynamics of Dryland Ecosystems Along the North Australian Tropical Transect Revealed by Satellite Solarâ€Induced Chlorophyll Fluorescence. Geophysical Research Letters, 2019, 46, 5294-5302.	4.0	51
23	Improved estimates of global terrestrial photosynthesis using information on leaf chlorophyll content. Global Change Biology, 2019, 25, 2499-2514.	9.5	95
24	A Global, 0.05-Degree Product of Solar-Induced Chlorophyll Fluorescence Derived from OCO-2, MODIS, and Reanalysis Data. Remote Sensing, 2019, 11, 517.	4.0	281
25	Diurnal and Seasonal Solar Induced Chlorophyll Fluorescence and Photosynthesis in a Boreal Scots Pine Canopy. Remote Sensing, 2019, 11, 273.	4.0	29
26	Highâ€Resolution Global Contiguous SIF of OCOâ€2. Geophysical Research Letters, 2019, 46, 1449-1458.	4.0	79
27	Solarâ€induced chlorophyll fluorescence exhibits a universal relationship with gross primary productivity across a wide variety of biomes. Global Change Biology, 2019, 25, e4.	9.5	31
28	Application method affects pesticide efficiency and effectiveness in wheat fields. Pest Management Science, 2020, 76, 1256-1264.	3.4	29
29	The impact of drought spells on forests depends on site conditions: The case of 2017 summer heat wave in southern Europe. Global Change Biology, 2020, 26, 851-863.	9.5	83
30	Solar-induced chlorophyll fluorescence and its link to canopy photosynthesis in maize from continuous ground measurements. Remote Sensing of Environment, 2020, 236, 111420.	11.0	81
31	Observational Constraints on the Response of High‣atitude Northern Forests to Warming. AGU Advances, 2020, 1, e2020AV000228.	5.4	24
32	The Global Carbon and Oxygen Cycles. , 2020, , 453-481.		1
33	The relationship between solar-induced fluorescence and gross primary productivity under different growth conditions: global analysis using satellite and biogeochemical model data. International Journal of Remote Sensing, 2020, 41, 7660-7679.	2.9	7
34	Generation of a Global Spatially Continuous TanSat Solar-Induced Chlorophyll Fluorescence Product by Considering the Impact of the Solar Radiation Intensity. Remote Sensing, 2020, 12, 2167.	4.0	16
35	Tracking Seasonal and Interannual Variability in Photosynthetic Downregulation in Response to Water Stress at a Temperate Deciduous Forest. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2018JG005002.	3.0	17
36	Simulating spatially distributed solar-induced chlorophyll fluorescence using a BEPS-SCOPE coupling framework. Agricultural and Forest Meteorology, 2020, 295, 108169.	4.8	13

#	Article	IF	CITATIONS
37	Assessing bi-directional effects on the diurnal cycle of measured solar-induced chlorophyll fluorescence in crop canopies. Agricultural and Forest Meteorology, 2020, 295, 108147.	4.8	43
38	Synergistic use of SMAP and OCO-2 data in assessing the responses of ecosystem productivity to the 2018 U.S. drought. Remote Sensing of Environment, 2020, 251, 112062.	11.0	34
39	Evaluating Multi-Angle Photochemical Reflectance Index and Solar-Induced Fluorescence for the Estimation of Gross Primary Production in Maize. Remote Sensing, 2020, 12, 2812.	4.0	6
40	Capturing the Impact of the 2018 European Drought and Heat across Different Vegetation Types Using OCO-2 Solar-Induced Fluorescence. Remote Sensing, 2020, 12, 3249.	4.0	25
41	CO2 Concentration, A Critical Factor Influencing the Relationship between Solar-induced Chlorophyll Fluorescence and Gross Primary Productivity. Remote Sensing, 2020, 12, 1377.	4.0	18
42	Feasibility of Using MODIS Products to Simulate Sun-Induced Chlorophyll Fluorescence (SIF) in Boreal Forests. Remote Sensing, 2020, 12, 680.	4.0	20
43	Satellite footprint data from OCO-2 and TROPOMI reveal significant spatio-temporal and inter-vegetation type variabilities of solar-induced fluorescence yield in the U.S. Midwest. Remote Sensing of Environment, 2020, 241, 111728.	11.0	38
44	Review of Top-of-Canopy Sun-Induced Fluorescence (SIF) Studies from Ground, UAV, Airborne to Spaceborne Observations. Sensors, 2020, 20, 1144.	3.8	30
45	Solarâ€induced chlorophyll fluorescence and shortâ€term photosynthetic response to drought. Ecological Applications, 2020, 30, e02101.	3.8	80
46	Reduction of structural impacts and distinction of photosynthetic pathways in a global estimation of GPP from space-borne solar-induced chlorophyll fluorescence. Remote Sensing of Environment, 2020, 240, 111722.	11.0	83
47	Evaluating impacts of snow, surface water, soil and vegetation on empirical vegetation and snow indices for the UtqiaÄįvik tundra ecosystem in Alaska with the LVS3 model. Remote Sensing of Environment, 2020, 240, 111677.	11.0	12
48	Varying Contributions of Drivers to the Relationship Between Canopy Photosynthesis and Farâ€Red Sunâ€Induced Fluorescence for Two Maize Sites at Different Temporal Scales. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2019JG005051.	3.0	15
49	OCO-2 Solar-Induced Chlorophyll Fluorescence Variability across Ecoregions of the Amazon Basin and the Extreme Drought Effects of El Niño (2015–2016). Remote Sensing, 2020, 12, 1202.	4.0	19
50	Moisture availability mediates the relationship between terrestrial gross primary production and solarâ€induced chlorophyll fluorescence: Insights from globalâ€scale variations. Global Change Biology, 2021, 27, 1144-1156.	9.5	57
51	Autumn Crop Yield Prediction using Data-Driven Approaches:- Support Vector Machines, Random Forest, and Deep Neural Network Methods. Canadian Journal of Remote Sensing, 2021, 47, 162-181.	2.4	34
52	Estimation of post-fire vegetation recovery in boreal forests using solar-induced chlorophyll fluorescence (SIF) data. International Journal of Wildland Fire, 2021, 30, 365-377.	2.4	5
53	Improving the Capability of the SCOPE Model for Simulating Solar-Induced Fluorescence and Gross Primary Production Using Data from OCO-2 and Flux Towers. Remote Sensing, 2021, 13, 794.	4.0	5
54	Estimating Global Gross Primary Production from Sun-Induced Chlorophyll Fluorescence Data and Auxiliary Information Using Machine Learning Methods. Remote Sensing, 2021, 13, 963.	4.0	17

CITATION REPORT

\sim	~
CHAILON	NEFORT

#	Article	IF	CITATIONS
55	Potential of Sunâ€Induced Chlorophyll Fluorescence for Indicating Mangrove Canopy Photosynthesis. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2020JG006159.	3.0	13
56	Vegetation Phenology in Permafrost Regions of Northeastern China Based on MODIS and Solar-induced Chlorophyll Fluorescence. Chinese Geographical Science, 2021, 31, 459-473.	3.0	10
57	Instrumentation sensitivities for tower-based solar-induced fluorescence measurements. Remote Sensing of Environment, 2021, 259, 112413.	11.0	16
58	xCO2 temporal variability above Brazilian agroecosystems: A remote sensing approach. Journal of Environmental Management, 2021, 288, 112433.	7.8	11
59	Global Analysis of the Relationship between Reconstructed Solar-Induced Chlorophyll Fluorescence (SIF) and Gross Primary Production (GPP). Remote Sensing, 2021, 13, 2824.	4.0	12
60	Spatiotemporal variability of atmospheric CO2 concentration and controlling factors over sugarcane cultivation areas in southern Brazil. Environment, Development and Sustainability, 2022, 24, 5694-5717.	5.0	10
61	The spatial heterogeneity of the relationship between gross primary production and sun-induced chlorophyll fluorescence regulated by climate conditions during 2007–2018. Global Ecology and Conservation, 2021, 29, e01721.	2.1	0
62	Improved understanding of the spatially-heterogeneous relationship between satellite solar-induced chlorophyll fluorescence and ecosystem productivity. Ecological Indicators, 2021, 129, 107949.	6.3	10
63	Identifying and understanding alternative states of dryland landscape: A hierarchical analysis of time series of fractional vegetation-soil nexuses in China's Hexi Corridor. Landscape and Urban Planning, 2021, 215, 104225.	7.5	16
64	Photosynthesis, chlorophyll fluorescence and photochemical reflectance index in photoinhibited leaves. Functional Plant Biology, 2021, 48, 815-826.	2.1	19
65	Concepts and Applications of Chlorophyll Fluorescence: A Remote Sensing Perspective. , 2021, , 245-276.		1
66	Global climatic controls on interannual variability of ecosystem productivity: Similarities and differences inferred from solar-induced chlorophyll fluorescence and enhanced vegetation index. Agricultural and Forest Meteorology, 2020, 288-289, 108018.	4.8	35
67	Photochemical reflectance index (PRI) can be used to improve the relationship between gross primary productivity (GPP) and sun-induced chlorophyll fluorescence (SIF). Remote Sensing of Environment, 2020, 246, 111888.	11.0	57
68	Solar-induced fluorescence retrievals in the context of physiological, environmental, and hardware-based sources of uncertainty. , 2019, , .		1
69	A Comparison of OCO-2 SIF, MODIS GPP, and GOSIF Data from Gross Primary Production (GPP) Estimation and Seasonal Cycles in North America. Remote Sensing, 2020, 12, 258.	4.0	48
70	Comparison of Solar-Induced Chlorophyll Fluorescence and Light Use Efficiency Models for Gross Primary Productivity Estimation on Three Mid-latitude Grassland Sites in North America. PFG - Journal of Photogrammetry, Remote Sensing and Geoinformation Science, 2021, 89, 549-562.	1.1	0
71	Remote Sensing Indices to Measure the Seasonal Dynamics of Photosynthesis in a Southern China Subtropical Evergreen Forest. Journal of Resources and Ecology, 2019, 10, 112.	0.4	0
72	Genotipicheskoe raznoobrazie ovsa po ekologicheskoi ustoichivosti raboty pigmentnogo kompleksa list'ev. , 2019, , .		0

#	Article	IF	CITATIONS
73	TROPOMI observations allow for robust exploration of the relationship between solar-induced chlorophyll fluorescence and terrestrial gross primary production. Remote Sensing of Environment, 2022, 268, 112748.	11.0	50
74	Revisiting dry season vegetation dynamics in the Amazon rainforest using different satellite vegetation datasets. Agricultural and Forest Meteorology, 2022, 312, 108704.	4.8	13
76	First Investigation of the Relationship Between Solar-Induced Chlorophyll Fluorescence Observed by TanSat and Gross Primary Productivity. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 11892-11902.	4.9	6
77	Land surface phenology detections from multi-source remote sensing indices capturing canopy photosynthesis phenology across major land cover types in the Northern Hemisphere. Ecological Indicators, 2022, 135, 108579.	6.3	14
78	Extraction of Forestry Parameters Based on Multi-Platform LiDAR. IEEE Access, 2022, 10, 21077-21094.	4.2	4
79	Estimation of the Net Primary Productivity of Winter Wheat Based on the Near-Infrared Radiance of Vegetation. SSRN Electronic Journal, 0, , .	0.4	0
80	Plant gross primary production, plant respiration and carbonyl sulfide emissions over the globe inferred by atmospheric inverse modelling. Atmospheric Chemistry and Physics, 2022, 22, 2525-2552.	4.9	17
81	A Reconstructed Global Daily Seamless SIF Product at 0.05 Degree Resolution Based on TROPOMI, MODIS and ERA5 Data. Remote Sensing, 2022, 14, 1504.	4.0	4
82	Using hyperspectral leaf reflectance to estimate photosynthetic capacity and nitrogen content across eastern cottonwood and hybrid poplar taxa. PLoS ONE, 2022, 17, e0264780.	2.5	4
83	Solar-Induced Chlorophyll Fluorescence Trends and Mechanisms in Different Ecosystems in Northeastern China. Remote Sensing, 2022, 14, 1329.	4.0	3
84	Retrieval of solar-induced chlorophyll fluorescence (SIF) from satellite measurements: comparison of SIF between TanSat and OCO-2. Atmospheric Measurement Techniques, 2022, 15, 2125-2137.	3.1	4
85	Evolution of light use efficiency models: Improvement, uncertainties, and implications. Agricultural and Forest Meteorology, 2022, 317, 108905.	4.8	62
86	Site Characteristics Mediate the Relationship Between Forest Productivity and Satellite Measured Solar Induced Fluorescence. Frontiers in Forests and Global Change, 2021, 4, .	2.3	4
87	Estimation of the net primary productivity of winter wheat based on the near-infrared radiance of vegetation. Science of the Total Environment, 2022, 838, 156090.	8.0	7
88	Monitoring drought impacts on crop productivity of the U.S. Midwest with solar-induced fluorescence: GOSIF outperforms GOME-2 SIF and MODIS NDVI, EVI, and NIRv. Agricultural and Forest Meteorology, 2022, 323, 109038.	4.8	50
89	Progress of studies on satellite-based terrestrial vegetation production models in China. Progress in Physical Geography, 2022, 46, 889-908.	3.2	3
90	Hot spots and anomalies of CO2 over eastern Amazonia, Brazil: A time series from 2015 to 2018. Environmental Research, 2022, 215, 114379.	7.5	4
91	A Spatiotemporal Constrained Machine Learning Method for OCO-2 Solar-Induced Chlorophyll Fluorescence (SIF) Reconstruction. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	6.3	2

#	Article	IF	CITATIONS
92	Hot Spots and Anomalies of Co2 Over Eastern Amazonia, Brazil. SSRN Electronic Journal, 0, , .	0.4	0
93	Solar-induced chlorophyll fluorescence imaging spectrometer: design, manufacture, and evaluation. Optics Express, 2022, 30, 41422.	3.4	1
94	Global modeling diurnal gross primary production from OCO-3 solar-induced chlorophyll fluorescence. Remote Sensing of Environment, 2023, 285, 113383.	11.0	6
95	How well do light-use efficiency models capture large-scale drought impacts on vegetation productivity compared with data-driven estimates?. Ecological Indicators, 2023, 146, 109739.	6.3	0

CITATION REPORT

96 ĐžÐ¦Ð•ĐĐšĐ~ Đ'ĐЛОĐ'ĐŽĐ™ ĐŸĐ•ĐĐ'Đ~ЧĐОЙ ĐŸĐОДĐ£ĐšĐ¦Đ~Đ~ Đ"Đ›Đ~ Đ¢Đ•ĐĐĐ~Đ¢ĐžĐĐ~Đ~ ЮГЕЗĐĐŸĐĐ"ĐĐžĐ

97	Forests for forests: combining vegetation indices with solar-induced chlorophyll fluorescence in random forest models improves gross primary productivity prediction in the boreal forest. Environmental Research Letters, 2022, 17, 125006.	5.2	6
98	Estimates of the terrestrial gross primary production for the south of Western Siberia in 2014-2021 according to OCO-2 and OCO-3 data. , 2022, , .		0
99	Dynamic of Fluorescence Emissions at O2A and O2B Telluric Absorption Bands in Forested Areas with Seasonal APAR and GPP Variations. Remote Sensing, 2023, 15, 67.	4.0	2
100	Response of Photosynthetic Efficiency to Extreme Drought and Its Influencing Factors in Southwest China. Sustainability, 2023, 15, 1095.	3.2	1
101	Assessment of Drought Events in Southwest China in 2009/2010 Using Sun-Induced Chlorophyll Fluorescence. Forests, 2023, 14, 49.	2.1	0
102	Addressing validation challenges for TROPOMI solar-induced chlorophyll fluorescence products using tower-based measurements and an NIRv-scaled approach. Remote Sensing of Environment, 2023, 290, 113547.	11.0	4
103	Warming and Drought Weaken the Carbon Sink Capacity of an Endangered Paleoendemic Temperate Rainforest in South America. Journal of Geophysical Research G: Biogeosciences, 2023, 128, .	3.0	4
104	Synergy between TROPOMI sun-induced chlorophyll fluorescence and MODIS spectral reflectance for understanding the dynamics of gross primary productivity at Integrated Carbon Observatory System (ICOS) ecosystem flux sites. Biogeosciences, 2023, 20, 1473-1490.	3.3	2
105	Simple and Innovative Methods to Estimate Gross Primary Production and Transpiration of Crops: A Review. Studies in Big Data, 2023, , 125-156.	1.1	1
106	Analysing far-red SIF directional anisotropy of three structurally contrasting forest canopies towards improved GPP estimation. Agricultural and Forest Meteorology, 2023, 338, 109531.	4.8	0
107	Drought did not change the linear relationship between chlorophyll fluorescence and terrestrial gross primary production under universal biomes. Frontiers in Forests and Global Change, 0, 6, .	2.3	0
108	How is the performance of satellite-based product suites in monitoring long-term dynamics of vegetation photosynthesis over global mountainous areas?. International Journal of Applied Earth Observation and Geoinformation, 2023, 119, 103325.	1.9	0
109	Solar-induced chlorophyll fluorescence detects photosynthesis variations and drought effects in tropical rubber plantation and natural deciduous forests. Agricultural and Forest Meteorology, 2023, 339, 109591.	4.8	2

CITATION REPORT

#	Article	IF	CITATIONS
111	Revisiting vegetation activity of Mongolian Plateau using multiple remote sensing datasets. Agricultural and Forest Meteorology, 2023, 341, 109649.	4.8	1
112	Proximal remote sensing and gross primary productivity in a temperate salt marsh. Agricultural and Forest Meteorology, 2023, 341, 109639.	4.8	2
113	SIF-based GPP modeling for evergreen forests considering the seasonal variation in maximum photochemical efficiency. Agricultural and Forest Meteorology, 2024, 344, 109814.	4.8	0
114	Investigating Terrestrial Carbon Uptake Over India Using Multimodel Simulations of Gross Primary Productivity and Satelliteâ€Based Biophysical Product. Journal of Geophysical Research G: Biogeosciences, 2023, 128, .	3.0	1
115	Non-linear correlations exist between solar-induced chlorophyll fluorescence and canopy photosynthesis in a subtropical evergreen forest in Southwest China. Ecological Indicators, 2023, 157, 111311.	6.3	2
116	Identifying Crop Growth Stages from Solar-Induced Chlorophyll Fluorescence Data in Maize and Winter Wheat from Ground and Satellite Measurements. Remote Sensing, 2023, 15, 5689.	4.0	0
117	The weekly cycle of photosynthesis in Europe reveals the negative impact of particulate pollution on ecosystem productivity. Proceedings of the National Academy of Sciences of the United States of America, 2023, 120, .	7.1	1
118	Solarâ€Induced Fluorescence Helps Constrain Global Patterns in Net Biosphere Exchange, as Estimated Using Atmospheric CO ₂ Observations. Journal of Geophysical Research G: Biogeosciences, 2023, 128, .	3.0	0
119	Contrasting responses of relationship between solar-induced fluorescence and gross primary production to drought across aridity gradients. Remote Sensing of Environment, 2024, 302, 113984.	11.0	1
120	Soil moisture retrieval by a novel hybrid model based on CYGNSS and Sun-induced fluorescence data. Journal of Hydrology, 2024, 632, 130845.	5.4	0
121	Remote sensing of terrestrial gross primary productivity: a review of advances in theoretical foundation, key parameters and methods. GIScience and Remote Sensing, 2024, 61, .	5.9	0
122	Spatio-temporal variation of atmospheric CO2 and its association with anthropogenic, vegetation, and climate indices over the state of Bihar, India. Environmental Advances, 2024, 16, 100513.	4.8	0
123	Potential of solar-induced chlorophyll fluorescence (SIF) to access long-term dynamics of soil salinity using OCO-2 satellite data and machine learning method. Geoderma, 2024, 444, 116855.	5.1	0

124 ææ⊄«æ—¥å...‰è⁻±å⁻¼å¶ç»;ç´è§å...‰é«˜å...‰è°±æˆå∫仪ç"ç©¶ï¼^特é,€ï¼‰. Laser and Optoelectronics Pro**gne**ss, 202**4**, 61, 02