

List of Accepted Papers - Blue Photonics 4

A generic algorithm to derive the intrinsic colour of natural waters from digital image for participatory science

Stéfani NOVOA, Marcel WERNAND, Hendrik Jan VAN DER WOERD

Absorption spectra for water samples from Lake Namtso (Tibet), Bohai sea (China), and the coast off Northern

Yi-Chun CHEN, Ciren NIMA, Børge HAMRE, Øyvind FRETTE, Svein Rune ERGA, Lu ZHAO, Jakob J. STAMNES

Advances with the KdUINO, the low-cost buoy to measure the attenuation coefficient.

Raul BARDAJI, Carine SIMON, Albert-Miquel SANCHEZ, Marcel WERNARD, Jaume PIERA

Ambiguity of underwater color measurement and color-based habitat classification

Yuri RZHANOV, Shachak PE'ERI, Aleksey SHASHKOV

Characterization of nearshore wave field through high resolution stereo imaging of sea waves

Lorenzo Paolo CORGNATI, Luca MAZZEI, Simone MARINI

Data quality control for an optimal use of LEDs-based technologies of hyperspectral transmissometers in ocean

Marta RAMÍREZ PÉREZ, Rüdiger RÖTTGERS, Elena TORRECILLA, Jaume PIERA

Determination of the light availability in the ocean utilizing the Vibrational Raman Scattering

Tilman DINTER, Vladimir ROZANOV, John P. BURROWS, Astrid BRACHER

Development and deployment of an in situ Raman spectrometer for deep sea applications

Florent COLAS, Morgan TARDIVEL, Damien LE VOURCH, Olivier PÉRON, Sébastien VERGNOLE, Emmanuel FROIGN

Development of U-bend Optical Probe to Detect Heavy Metal Ions

Kaushalkumar BHAVSAR, Emma HOURSTON, Bobby CHIRAPPURAM, P RADHAKRISHNAN, Radhakrishna PRABHU

Environmental Modeling simulation Transport and Diffusion with Application BY LASER RADAR

MOHAMMEDI FERHAT, JOUADI NAJETTE

Fluorescence lifetime measurement and imaging of chlorophyll in UV-stressed Tetraselmis microalgae in vivo

Arne Skodvin KRISTOFFERSEN

Geo-morphologic investigations of the shore-sea interface with low-cost airborne imaging

Jens WELLHAUSEN, Jan SCHULZ

Hue colour classification of water bodies and participatory science

Marcel Robert WERNAND, Hans VAN DER WOERD

Increasing discrimination success of plankton images by means of recurrence analysis

Jan SCHULZ, Andrea MENTGES, Oliver ZIELINSKI

In-situ online measurement of upwelling radiance: investigation of a hydrographic sub-hull installation in a re

Nick RÜSSMEIER, Shungudzemwoyo Pascal GARABA, Oliver ZIELINSKI

Light amplification in shallow water and sea ice

Børge HAMRE, Torbjørn TAKJELLE

Light penetration in seawater polluted by dispersed oil: results of radiative transfer modelling

Kamila HAULE, Henryk TOCZEK, Mirosław DARECKI

Low Cost Underwater Stereo Camera Autonomous System for 3D Organisms Reconstruction

Luca MAZZEI, Lorenzo CORGNATI, Simone MARINI

Microfluidic thermal treatment: A novel methodology for DOM components identification via 3D-UV-EMM.

Mario Luis MIRANDA MONTENEGRO, Alina TROZJUK, Daniela VOSS, Stefan GASSMANN, Oliver ZIELINSKI

NOSS in situ density sensor

Damien MALARDÉ, Arnaud DAVID, Marc LE MENN, Patrice BRAULT, Serge LE RESTE

Numerical Compensation of the Optical Aberrations in Digital Holographic Microscopy for Deep Ocean Measur

Laszlo R. ORZO, Márton Zsolt KISS, Ákos ZARÁNDY

Observing in-situ small-scale behavior of individual marine zooplankton by using an optical approach

Klas Ove MÖLLER, Mike ST.JOHN, Axel TEMMING, Rabea DIEKMANN, Janna K. PETERS, Jens FLOETER, Anne F. SEI

Omnidirectional cameras for underwater applications

Josep BOSCH, Nuno GRACIAS, Pere RIDAO, David RIBAS

Optical PAH sensing for aquatic applications and marine pollution monitoring

Oliver ZIELINSKI, Julian ENGEL, Rohan H. HENKEL, Rüdiger HEUERMANN, Daniela MEIER, Karin MUNDERLOH, Jan

Optical properties of lubricate oils potentially found in marine environment

Emilia BASZANOWSKA, Zbigniew OTREMBA

Optimal processing algorithms for taxonomic discrimination with low-cost narrow-band spectrofluorometers

Albert-Miquel SÁNCHEZ, Ismael F. AYMERICH, Sergio PÉREZ, Jaume PIERA

Our Eyes Beneath the Sea: Novel Underwater Imaging Systems

Tali TREIBITZ

Phytoplankton community structure and optical properties in the Indian Ocean

Astrid BRACHER, Wee CHEAH, Sonja ENDRES, Anja ENGEL

Polarization distribution over sea surface – measurement calibration method

Włodzimierz FREDA, Jacek PISKOZUB, Henryk TOCZEK

Potential of affordable bio-optical sensors in marine citizen's observatories

Julia A. BUSCH, Meinte BLAAS, Karin DUBSKY, Anna FRIEDRICHS, Hans J. VAN DER WOERD, Oliver ZIELINSKI

Recent advances using hyperspectral in situ measurements of remote-sensing reflectance for the assessment of
Elena TORRECILLA, Jaume PIERA, Astrid BRACHER

Simulation of hyperspectral light dependence of vertical displacements and self shading from phytoplankton c
ELOY ZAFRA SANTOS, ALBERT M- SANCHEZ, JAUME PIERA

Study of the organic matter impact on the light spectrum transmitted through the sea-surface in Baltic estuari
Violetta DROZDOWSKA, Przemysław MAKUCH, Piotr MARKUSZEWSKI, Paulina PAKSZYS, Dorota GUTOWSKA, Piot

The GUARD1 Autonomous System for Gelatinous Zooplankton Image-based Recognition
Simone MARINI, Luca MAZZEI, Lorenzo CORGNATI

The role of citizen science in the monitoring of optical characteristics of ocean waters in remote areas
Luigi CECCARONI, Alexander STEBLIN, Laia SUBIRATS

The way from a smart phone to an affordable fluorescence sensor for phytoplankton retrieval
Anna FRIEDRICHS, Julia A, BUSCH, Christopher JOHN, Hans J. VAN DER WOERD, Oliver ZIELINSKI

True colour classification of natural waters with medium spectral-resolution satellite observations
Hendrik Jan VAN DER WOERD, Marcel WERNAND

Underwater Depth Imaging using Time-correlated Single Photon Counting
Aurora MACCARONE, Aongus MCCARTHY, Ximing REN, Ryan E. WARBURTON, Andy M. WALLACE, James MOFFA

Underwater Imaging and Citizen Science to estimate Water Transparency
Carine SIMON, Raul BARDAJÍ BENACH, Jaume PIERA HERNANDEZ

Underwater Polarization Vision
Amit LERNER

Underwater Surface Plasmon Resonance sensor for the detection of marine biotoxin
Florent COLAS, Marie-Pierre CRASSOUS, Michel LUNVEN, Chantal COMPÈRE

Upwelling radiance degree of polarization over the sea surface - modelling and measurements
Jacek PISKOZUB, Włodzimierz FREDA

UTOFIA project: A new compact, cost-efficient concept for underwater range-gated imaging
Jens T. THIELEMANN, Karl Henrik HAUGHOLT, Odd LØVHAUGEN, Henrik SCHUMANN-OLSEN

Why do we need Citizen Science Observations to characterise bio-optical processes in marine environments?
Jaume PIERA, Albert Miquel SANCHEZ, Elena TORRECILLA, Luigi CECCARONI, Raul BARDAJÍ