

Tatas Brotosudarmo

List of Publications by Year in descending order

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72
papers

1,073
citations

471371

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434063

31
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72
all docs

72
docs citations

72
times ranked

1190
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal-Enhanced Fluorescence of Chlorophylls in Single Light-Harvesting Complexes. Nano Letters, 2008, 8, 558-564.	4.5	146
2	Structures of Astaxanthin and Their Consequences for Therapeutic Application. International Journal of Food Science, 2020, 2020, 1-16.	0.9	75
3	Analysis on the Chlorophyll Content of Commercial Green Leafy Vegetables. Procedia Chemistry, 2015, 14, 225-231.	0.7	67
4	Single-Molecule Spectroscopy Reveals that Individual Low-Light LH2 Complexes from Rhodospseudomonas palustris 2.1.6. Have a Heterogeneous Polypeptide Composition. Biophysical Journal, 2009, 97, 1491-1500.	0.2	63
5	Artificial photosynthesis " solar fuels: current status and future prospects. Biofuels, 2010, 1, 861-876.	1.4	56
6	Monitoring fluorescence of individual chromophores in peridinin"chlorophyll"protein complex using single molecule spectroscopy. Biochimica Et Biophysica Acta - Bioenergetics, 2007, 1767, 956-964.	0.5	54
7	Tracking energy transfer between light harvesting complex 2 and 1 in photosynthetic membranes grown under high and low illumination. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 1473-1478.	3.3	53
8	Fluorescence enhancement of light-harvesting complex 2 from purple bacteria coupled to spherical gold nanoparticles. Applied Physics Letters, 2011, 99, .	1.5	46
9	Energy Transfer in Reconstituted Peridinin-Chlorophyll-Protein Complexes: Ensemble and Single-Molecule Spectroscopy Studies. Biophysical Journal, 2007, 93, 3249-3258.	0.2	35
10	A comparative look at the first few milliseconds of the light reactions of photosynthesis. Photochemical and Photobiological Sciences, 2008, 7, 1150-1158.	1.6	33
11	The light intensity under which cells are grown controls the type of peripheral light-harvesting complexes that are assembled in a purple photosynthetic bacterium. Biochemical Journal, 2011, 440, 51-61.	1.7	33
12	Peridinin-chlorophyll-protein reconstituted with chlorophyll mixtures: Preparation, bulk and single molecule spectroscopy. FEBS Letters, 2006, 580, 5257-5262.	1.3	31
13	Low Light Adaptation: Energy Transfer Processes in Different Types of Light Harvesting Complexes from Rhodospseudomonas palustris. Biophysical Journal, 2009, 97, 3019-3028.	0.2	31
14	Sulfur-Containing Carotenoids from A Marine Coral Symbiont Erythro bacter flavus Strain KJ5. Marine Drugs, 2019, 17, 349.	2.2	29
15	Absorption Enhancement in Peridinin"Chlorophyll"Protein Light-Harvesting Complexes Coupled to Semicontinuous Silver Film. Plasmonics, 2012, 7, 115-121.	1.8	28
16	An Indonesian Marine Bacterium, <i>Pseudoalteromonas rubra</i> , Produces Antimicrobial Prodigiosine Pigments. ACS Omega, 2020, 5, 4626-4635.	1.6	28
17	Composition of Photosynthetic Pigments in a Red Alga Kappaphycus Alvarezii Cultivated in Different Depths. Procedia Chemistry, 2015, 14, 193-201.	0.7	19
18	Detection of single biomolecule fluorescence excited through energy transfer: Application to light-harvesting complexes. Applied Physics Letters, 2007, 90, 193901.	1.5	18

#	ARTICLE	IF	CITATIONS
19	Relative binding affinities of chlorophylls in peridinin-chlorophyll protein reconstituted with heterochlorophyllous mixtures. <i>Photosynthesis Research</i> , 2008, 95, 247-252.	1.6	15
20	Single Molecule Fluorescence of Native and Refolded Peridinin-Chlorophyll Protein Complexes. <i>Journal of Fluorescence</i> , 2008, 18, 611-617.	1.3	15
21	Polarization control of metal-enhanced fluorescence in hybrid assemblies of photosynthetic complexes and gold nanorods. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 9015.	1.3	15
22	Separation of Photosynthetic Pigments by High-performance Liquid Chromatography: Comparison of Column Performance, Mobile Phase, and Temperature. <i>Procedia Chemistry</i> , 2015, 14, 202-210.	0.7	12
23	Adaptation of the Photosynthetic Unit of Purple Bacteria to Changes of Light Illumination Intensities. <i>Procedia Chemistry</i> , 2015, 14, 414-421.	0.7	12
24	Performance comparison of the convolutional neural network optimizer for photosynthetic pigments prediction on plant digital image. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	12
25	Fluorescence spectroscopy of reconstituted peridinin-chlorophyll protein complexes. <i>Photosynthesis Research</i> , 2008, 95, 253-260.	1.6	11
26	Plasmon Enhancement of Fluorescence in Single Light-Harvesting Complexes from <i>Amphidinium carterae</i> . <i>Acta Physica Polonica A</i> , 2009, 116, S-22-S-25.	0.2	11
27	Energy transfer from conjugated polymer to bacterial light-harvesting complex. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	8
28	Carotenoid composition in buah merah (<i>Pandanus conoideus</i> Lam.), an indigenous red fruit of the Papua Islands. <i>Journal of Food Composition and Analysis</i> , 2021, 96, 103722.	1.9	8
29	Ragam Metode Ekstraksi Karotenoid dari Sumber Tumbuhan dalam Dekade Terakhir (Telaah Literatur). <i>Jurnal Rekayasa Kimia & Lingkungan</i> , 2018, 13, 40-50.	0.5	8
30	Chloroplast Pigments: Structure, Function, Assembly and Characterization. , 0, , .		7
31	Plasmon-enhanced fluorescence in heterochlorophyllous peridinin-chlorophyll-protein photosynthetic complex. <i>Optical Materials</i> , 2012, 34, 2076-2079.	1.7	6
32	Rapid nitrogen determination of soybean leaves using mobile application. , 2013, , .		6
33	Saponin from purple eggplant (<i>Solanum melongena</i> L.) and their activity as pancreatic lipase inhibitor. <i>IOP Conference Series: Materials Science and Engineering</i> , 0, 509, 012139.	0.3	6
34	The activity of Flavonoid Isolates from Papaya (<i>Carica papaya</i> L.) Seed as Pancreatic Lipase Inhibitor. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 546, 062031.	0.3	6
35	Effect of drying treatments on the contents of lutein and zeaxanthin in orange- and yellow-cultivars of marigold flower and its application for lutein ester encapsulation. <i>IOP Conference Series: Materials Science and Engineering</i> , 0, 509, 012060.	0.3	6
36	Deep chemometrics for nondestructive photosynthetic pigments prediction using leaf reflectance spectra. <i>Information Processing in Agriculture</i> , 2021, 8, 194-204.	2.9	6

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37	The Light Reactions of Photosynthesis as a Paradigm for Solar Fuel Production. <i>Energy Procedia</i> , 2014, 47, 283-289.	1.8	5
38	Stability of Palm Carotenes in an Organic Solvent and in a Food Emulsion System. <i>International Journal of Food Properties</i> , 2015, 18, 2539-2548.	1.3	5
39	Multispectral Imaging and Convolutional Neural Network for Photosynthetic Pigments Prediction. , 2018, , .		5
40	Real-time assessment of plant photosynthetic pigment contents with an artificial intelligence approach in a mobile application. <i>Journal of Agricultural Engineering</i> , 2020, 51, 220-228.	0.7	5
41	Integrated solvent-free extraction and encapsulation of lutein from marigold petals and its application. <i>CYTA - Journal of Food</i> , 2019, 17, 121-127.	0.9	4
42	Complete Genome Sequence of the Marine Bacterium <i>Erythrobacter flavus</i> Strain KJ5. <i>Microbiology Resource Announcements</i> , 2019, 8, .	0.3	4
43	Visible Light-Induced Antibacterial Activity of Pigments Extracted from Dregs of Green and Black Teas. <i>Scientifica</i> , 2021, 2021, 1-12.	0.6	4
44	Spectral Dependence of Fluorescence Enhancement in LH2-Au Nanoparticle Hybrid Nanostructures. <i>Acta Physica Polonica A</i> , 2012, 122, 252-254.	0.2	4
45	Automatic leaf color level determination for need based fertilizer using fuzzy logic on mobile application: A model for soybean leaves. , 2014, , .		3
46	Preliminary Evaluation of the Pigments Content from <i>Rhodobacter Sphaeroides</i> at Stages during Photosynthetic Growth. <i>Procedia Chemistry</i> , 2015, 14, 101-107.	0.7	3
47	Photostability Assay on Light-harvesting Complex as a Material of Biophotovoltaic. <i>Energy Procedia</i> , 2014, 47, 189-195.	1.8	2
48	Evaluating Provitamin A Carotenoids and Polar Metabolite Compositions during the Ripening Stages of the Agung Semeru Banana (<i>Musa paradisiaca</i> L. AAB). <i>International Journal of Food Science</i> , 2020, 2020, 1-9.	0.9	2
49	Marine bacterium <i>Seonamhaeicola algicola</i> strain CC1 as a potential source for the antioxidant carotenoid, zeaxanthin. <i>Ilmu Kelautan: Indonesian Journal of Marine Sciences</i> , 2021, 26, 215-224.	0.3	2
50	Probabilistic classification method on multi wavelength chromatographic data for photosynthetic pigments identification. , 2014, , .		1
51	Reconstitution Approach to Tune Spectral Features of Light Harvesting Complexes for Improved Light Absorption and Energy Transfer. <i>Energy Procedia</i> , 2014, 47, 113-122.	1.8	1
52	Application of Simple Multispectral Image Sensor and Artificial Intelligence for Predicting of Drought Tolerant Variety of Soybean. <i>Procedia Chemistry</i> , 2015, 14, 246-255.	0.7	1
53	Low-cost chlorophyll meter (LCCM): portable measuring device for leaf chlorophyll. <i>Proceedings of SPIE</i> , 2016, , .	0.8	1
54	Recent exploration of bioactive pigments from marine bacteria. <i>ScienceAsia</i> , 2021, 47, 265.	0.2	1

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55	Carotenoid Analysis from Commercial Banana Cultivars (<i>Musa</i> spp.) in Malang, East Java, Indonesia. Indonesian Journal of Chemistry, 2021, 21, 690.	0.3	1
56	STUDY ON THE STRUCTURAL BASIS OF PERIPHERAL LIGHT HARVESTING COMPLEXES (LH2) IN PURPLE NON-SULPHUR PHOTOSYNTHETIC BACTERIA. Indonesian Journal of Chemistry, 2010, 10, 401-408.	0.3	1
57	Convolutional neural network in image analysis for determination of mangrove species. , 2019, , .		1
58	Green ultrasound-assisted extraction of astaxanthin from fermented rebon shrimp (cincalok) using vegetable oils as solvents. OCL - Oilseeds and Fats, Crops and Lipids, 2022, 29, 15.	0.6	1
59	Wavelength-Dependent Optical Response of Single Photosynthetic Antenna Complexes from Siphonous Green Alga <i>Codium fragile</i>. Journal of Physical Chemistry Letters, 0, , 5226-5231.	2.1	1
60	P/7 The structure of purple bacterial antenna complexes: From single molecules to native membranes. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, S3.	0.5	0
61	Metal-Enhanced Fluorescence of Chlorophylls in Single Light-Harvesting Complexes. Materials Research Society Symposia Proceedings, 2009, 1208, 1.	0.1	0
62	Estimasi Produk Degradasi Ekstrak Kasar Pigmen Alga Merah <i>Kappaphycus alvarezii</i> (Doty) Doty Varian Merah, Coklat, dan Hijau: Telaah Perbedaan Spektrum Serapan. Ilmu Kelautan: Indonesian Journal of Marine Sciences, 2012, 17, 31.	0.3	0
63	Tracing of backward energy transfer from LH1 to LH2 in photosynthetic membranes grown under high and low irradiation.. EPJ Web of Conferences, 2013, 41, 08011.	0.1	0
64	Web camera as low cost multispectral sensor for quantification of chlorophyll in soybean leaves. Proceedings of SPIE, 2015, , .	0.8	0
65	Artificial neural network model for photosynthetic pigments identification using multi wavelength chromatographic data. AIP Conference Proceedings, 2016, , .	0.3	0
66	HYPOCHOLESTEROLEMIC EFFECT AND PIGMENTS COMPOSITION OF HERBAL MEDICINE CONTAINING HIGHER AND LOWER PLANTS. International Journal of Pharmacy and Pharmaceutical Sciences, 2017, 9, 97.	0.3	0
67	Characterization of Tambjamines Pigment from Marine Bacterium <i>Pseudoalteromonas</i> sp. PM2 Indigenous from Alor Island, Indonesia. Indonesian Journal of Natural Pigments, 2021, 3, 16-23.	0.4	0
68	The Development of Flake Containing Provitamin A Carotenoids From Blend of Banana and Yellow-Fleshed Sweet Potato. Indonesian Journal of Natural Pigments, 2021, 3, 36.	0.4	0
69	Remnant photosynthetic pigments in tea dregs: identification, composition, and potential use as antibacterial photosensitizer. Potravinarstvo, 0, 15, 835-845.	0.5	0
70	PHOTOSTABILITY OF PURPLE BACTERIAL LIGHT-HARVESTING COMPLEXES TOWARDS EXPOSURE OF LIGHT ILLUMINATION TRACED BY PIGMENT RATIO. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.3	0
71	Single cells diatom <i>Chaetoceros muelleri</i> investigated by homebuilt confocal fluorescence spectro-microscopy. , 2019, , .		0
72	Optimization of Adsorption and Desorption Time in the Extraction of Volatile Compounds in Brewed Java Arabica Coffee Using the HS-SPME/GC-MS Technique. Jurnal Kimia Sains Dan Aplikasi, 2022, 25, 49-55.	0.1	0