Table S1. References of the publications of remote sensing of phycocyanin from web of science.

Authors	Title	Journal	Year	DOI
Millie, DF; Baker, MC; Tucker, CS; Vinyard, BT; Dionigi, CP	High-resolution airborne remote-sensing of bloom-forming phytoplankton	Journal Of Phycology	1992	10.1111/j.0022-3646.1992.00281.x
Gitelson, AA; Laorawat, S; Keydan, GP; Vonshak, A	Optical-properties of dense algal cultures outdoors and their application to remote estimation of biomass and pigment concentration in Spirulina-platensis (cyanobacteria)	Journal Of Phycology	1995	10.1111/j.0022-3646.1995.00828.x
Vincent, RK; Qin, XM; McKay, RML; Miner, J; Czajkowski, K; Savino, J; Bridgeman, T	Phycocyanin detection from LANDSAT TM data for mapping cyanobacterial blooms in Lake Erie	Remote Sensing Of Environment	2004	10.1016/j.rse.2003.10.014
Seppala, J; Ylostalo, P; Kuosa, H	Spectral absorption and fluorescence characteristics of phytoplankton in different size fractions across a salinity gradient in the Baltic Sea	International Journal Of Remote Sensing	2005	10.1080/01431160410001723682
Simis, SGH; Peters, SWM; Gons, HJ	Remote sensing of the cyanobacterial pigment phycocyanin in turbid inland water	Limnology And Oceanography	2005	10.4319/lo.2005.50.1.0237
Yang Dingtian; Pan Delu	Hyperspectral retrieval model of phycocyanin in case II waters	Chinese Science Bulletin	2006	10.1007/s11434-006-9149-4
Metsamaa, Liisa; Kutser, Tilt; Strombeck, Niklas	Recognising cyanobacterial blooms based on their optical signature: a modelling study	Boreal Environment Research	2006	
Kutser, T; Metsamaa, L; Strombeck, N; Vahtmae, E	Monitoring cyanobacterial blooms by satellite remote sensing	Estuarine Coastal And Shelf Science	2006	10.1016/j.ecss.2005.11.024
Sridhar, B. B. Maruthi; Vincent, Robert K.	Spectral reflectance measurements of a microcystis bloom in Upper Klamath Lake, Oregon	Journal Of Great Lakes Research	2007	
Simis, Stefan G. H.; Ruiz-Verdu, Antonio; Antonio Dominguez-Gomez, Jose; Pena-	Influence of phytoplankton pigment composition on remote sensing of cyanobacterial biomass	Remote Sensing Of Environment	2007	10.1016/j.rse.2006.09.008

Martinez, Ramon; Peters, Steef W. M.; Gons, Herman J.				
Ruiz-Verdu, Antonio; Simis, Stefan G. H.; de Hoyos, Caridad; Gons, Herman J.; Pena-Martinez, Ramon	An evaluation of algorithms for the remote sensing of cyanobacterial biomass	Remote Sensing Of Environment	2008	10.1016/j.rse.2007.11.019
Randolph, Kaylan; Wilson, Jeff; Tedesco, Lenore; Li, Lin; Pascual, D. Lani; Soyeux, Emmanuel	Hyperspectral remote sensing of cyanobacteria in turbid productive water using optically active pigments, chlorophyll a and phycocyanin	Remote Sensing Of Environment	2008	10.1016/j.rse.2008.06.002
Hunter, P. D.; Tyler, A. N.; Willby, N. J.; Gilvear, D. J.	The spatial dynamics of vertical migration by Microcystis aeruginosa in a eutrophic shallow lake: A case study using high spatial resolution time-series airborne remote sensing	Limnology And Oceanography	2008	10.4319/lo.2008.53.6.2391
Hunter, Peter D.; Tyler, Andrew N.; Presing, Matyas; Kovacs, Attila W.; Preston, Tom	Spectral discrimination of phytoplankton colour groups: The effect of suspended particulate matter and sensor spectral resolution	Remote Sensing Of Environment	2008	10.1016/j.rse.2007.08.003
Mishra, Sachidananda; Mishra, Deepak R.; Schluchter, Wendy M.	A Novel Algorithm for Predicting Phycocyanin Concentrations in Cyanobacteria: A Proximal Hyperspectral Remote Sensing Approach	Remote Sensing	2009	10.3390/rs1040758
Becker, Richard H.; Sultan, Mohamed I.; Boyer, Gregory L.; Twiss, Michael R.; Konopko, Elizabeth	Mapping cyanobacterial blooms in the Great Lakes using MODIS	Journal Of Great Lakes Research	2009	10.1016/j.jglr.2009.05.007
Hunter, Peter D.; Tyler, Andrew N.; Gilvear, David J.; Willby, Nigel J.	Using Remote Sensing to Aid the Assessment of Human Health Risks from Blooms of Potentially Toxic Cyanobacteria	Environmental Science & Technology	2009	10.1021/es802977u
Hunter, Peter D.; Tyler, Andrew N.; Carvalho,	Hyperspectral remote sensing of cyanobacterial pigments as indicators	Remote Sensing Of Environment	2010	10.1016/j.rse.2010.06.006

Laurence; Codd, Geoffrey A.; Maberly, Stephen C.	for cell populations and toxins in eutrophic lakes			
Zhang, Yunlin; Feng, Longqing; Li, Junsheng; Luo, Liancong; Yin, Yan; Liu, Mingliang; Li, Yunliang	Seasonal-spatial variation and remote sensing of phytoplankton absorption in Lake Taihu, a large eutrophic and shallow lake in China	Journal Of Plankton Research	2010	10.1093/plankt/fbq039
Guanter, Luis; Ruiz-Verdu, Antonio; Odermatt, Daniel; Giardino, Claudia; Simis, Stefan; Estelles, Victor; Heege, Thomas; Antonio Dominguez-Gomez, Jose; Moreno, Jose	Atmospheric correction of ENVISAT/MERIS data over inland waters: Validation for European lakes	Remote Sensing Of Environment	2010	10.1016/j.rse.2009.10.004
Li, Lin; Sengpiel, Rebecca E.; Pascual, Denise L.; Tedesco, Lenore P.; Wilson, Jeffrey S.; Soyeux, Emmanuel	Using hyperspectral remote sensing to estimate chlorophyll-a and phycocyanin in a mesotrophic reservoir	International Journal Of Remote Sensing	2010	10.1080/01431161003789549
Dash, Padmanava; Walker, Nan D.; Mishra, Deepak R.; Hu, Chuanmin; Pinckney, James L.; D'Sa, Eurico J.	Estimation of cyanobacterial pigments in a freshwater lake using OCM satellite data	Remote Sensing Of Environment	2011	10.1016/j.rse.2011.08.004
Dominguez Gomez, Jose Antonio; Alonso Alonso, Covadonga; Alonso Garcia, Ana	Remote sensing as a tool for monitoring water quality parameters for Mediterranean Lakes of European Union water framework directive (WFD) and as a system of surveillance of cyanobacterial harmful algae blooms (SCyanoHABs)	Environmental Monitoring And Assessment	2011	10.1007/s10661-010-1831-7
Moisan, John R.; Moisan, Tiffany A. H.; Linkswiler, Matthew A.	An inverse modeling approach to estimating phytoplankton pigment	Journal Of Geophysical Research-Oceans	2011	10.1029/2010JC006786

	concentrations from phytoplankton absorption spectra			
Ma, Ronghua; Duan, Hongtao; Lue, Chunguang; Loiselle, Steven	Unusual links between inherent and apparent optical properties in shallow lakes, the case of Taihu Lake	Hydrobiologia	2011	10.1007/s10750-011-0646-z
Potes, M.; Costa, M. J.; da Silva, J. C. B.; Silva, A. M.; Morais, M.	Remote sensing of water quality parameters over Alqueva Reservoir in the south of Portugal	International Journal Of Remote Sensing	2011	10.1080/01431161003747513
Matthews, Mark William	A current review of empirical procedures of remote sensing in inland and near-coastal transitional waters	International Journal Of Remote Sensing	2011	10.1080/01431161.2010.512947
Le, Chengfeng; Li, Yunmei; Zha, Yong; Wang, Qiao; Zhang, Hong; Yin, Bin	Remote sensing of phycocyanin pigment in highly turbid inland waters in Lake Taihu, China	International Journal Of Remote Sensing	2011	10.1080/01431161.2010.533210
Duan, Hongtao; Ma, Ronghua; Hu, Chuanmin	Evaluation of remote sensing algorithms for cyanobacterial pigment retrievals during spring bloom formation in several lakes of East China	Remote Sensing Of Environment	2012	10.1016/j.rse.2012.08.011
Li, Linhai; Li, Lin; Shi, Kun; Li, Zuchuan; Song, Kaishan	A semi-analytical algorithm for remote estimation of phycocyanin in inland waters	Science Of The Total Environment	2012	10.1016/j.scitotenv.2012.07.023
Song, Kaishan; Li, Lin; Li, Shuai; Tedesco, Lenore; Hall, Bob; Li, Zuchuan	Hyperspectral retrieval of phycocyanin in potable water sources using genetic algorithm-partial least squares (GA-PLS) modeling	International Journal Of Applied Earth Observation And Geoinformation	2012	10.1016/j.jag.2012.03.013
Song, Kaishan; Li, Lin; Tedesco, Lenore P.; Li, Shuai; Clercin, Nicolas A.; Hall, Bob E.; Li, Zuchuan; Shi, Kun	Hyperspectral determination of eutrophication for a water supply source via genetic algorithm-partial least squares (GA-PLS) modeling	Science Of The Total Environment	2012	10.1016/j.scitotenv.2012.03.058
Zimba, Paul V.	An improved phycobilin extraction method	Harmful Algae	2012	10.1016/j.hal.2012.02.009

Simis, Stefan G. H.; Kauko, Hanna M.	In vivo mass-specific absorption spectra of phycobilipigments through selective bleaching	Limnology And Oceanography-Methods	2012	10.4319/lom.2012.10.214
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Wheeler, Sarah M.; Morrissey, Leslie A.; Levine, Suzanne N.; Livingston, Gerald P.; Vincent, Warwick F.	Mapping cyanobacterial blooms in Lake Champlain's Missisquoi Bay using QuickBird and MERIS satellite data	Journal Of Great Lakes Research	2012	10.1016/j.jglr.2011.06.009
Ortiz, Joseph D.; Witter, Donna L.; Ali, Khalid Adem; Fela, Nathan; Duff, Michael; Mills, Lonnie	Evaluating multiple colour-producing agents in Case II waters from Lake Erie	International Journal Of Remote Sensing	2013	10.1080/01431161.2013.853892
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Ogashawara, Igor; Mishra, Deepak R.; Mishra, Sachidananda; Curtarelli, Marcelo P.; Stech, Jose L.	A Performance Review of Reflectance Based Algorithms for Predicting Phycocyanin Concentrations in Inland Waters	Remote Sensing	2013	10.3390/rs5104774
Matthews, Mark William; Bernard, Stewart	Characterizing the Absorption Properties for Remote Sensing of Three Small Optically-Diverse South African Reservoirs	Remote Sensing	2013	10.3390/rs5094370
Palmer, Stephanie C. J.; Pelevin, Vadim V.; Goncharenko, Igor;	Ultraviolet Fluorescence LiDAR (UFL) as a Measurement Tool for	Remote Sensing	2013	10.3390/rs5094405

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Song, Kaishan; Li, Lin; Tedesco, Lenore; Clercin, Nicole; Hall, Bob; Li, Shuai; Shi, Kun; Liu, Dawei; Sun, Ying	Remote estimation of phycocyanin (PC) for inland waters coupled with YSI PC fluorescence probe	Environmental Science And Pollution Research	2013	10.1007/s11356-013-1527-y
Sun, Deyong; Li, Yunmei; Wang, Qiao; Gao, Jay; Le, Chengfeng; Huang, Changchun; Gong, Shaoqi	Hyperspectral Remote Sensing of the Pigment C-Phycocyanin in Turbid Inland Waters, Based on Optical Classification	Ieee Transactions On Geoscience And Remote Sensing	2013	10.1109/TGRS.2012.2227976
Mishra, Sachidananda; Mishra, Deepak R.; Lee, Zhongping; Tucker, Craig S.	Quantifying cyanobacterial phycocyanin concentration in turbid productive waters: A quasi-analytical approach	Remote Sensing Of Environment	2013	10.1016/j.rse.2013.02.004
Trescott, Adam; Isenstein, Elizabeth; Park, Mi-Hyun	Remote sensing of cyanobacterial blooms in Lake Champlain, USA	Water Science And Technology-Water Supply	2013	10.2166/ws.2013.114
Chawira, M.; Dube, T.; Gumindoga, W.	Remote sensing based water quality monitoring in Chivero and Manyame lakes of Zimbabwe	Physics And Chemistry Of The Earth	2013	10.1016/j.pce.2013.09.003
Nguy-Robertson, Anthony; Li, Lin; Tedesco, Lenore P.; Wilson, Jeffrey S.; Soyeux, Emmanuel	Determination of absorption coefficients for chlorophyll a, phycocyanin, mineral matter and CDOM from three central Indiana reservoirs	Journal Of Great Lakes Research	2013	10.1016/j.jglr.2013.04.004
Groetsch, Philipp M. M.; Simis, Stefan G. H.; Eleveld, Marieke A.; Peters, Steef W. M.	Cyanobacterial bloom detection based on coherence between ferrybox observations	Journal Of Marine Systems	2014	10.1016/j.jmarsys.2014.05.015

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Qi, Lin; Hu, Chuanmin; Duan, Hongtao; Cannizzaro, Jennifer; Ma, Ronghua	A novel MERIS algorithm to derive cyanobacterial phycocyanin pigment concentrations in a eutrophic lake: Theoretical basis and practical considerations	Remote Sensing Of Environment	2014	10.1016/j.rse.2014.08.026
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Ali, Khalid A.; Witter, Donna L.; Ortiz, Joseph D.	Multivariate approach to estimate colour producing agents in Case 2 waters using first-derivative spectrophotometer data	Geocarto International	2014	10.1080/10106049.2012.743601
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Kudela, Raphael M.; Palacios, Sherry L.; Austerberry, David C.; Accorsi, Emma K.; Guild, Liane S.; Torres-Perez, Juan	Application of hyperspectral remote sensing to cyanobacterial blooms in inland waters	Remote Sensing Of Environment	2015	10.1016/j.rse.2015.01.025
Torbick, Nathan; Corbiere, Megan	A Multiscale Mapping Assessment of Lake Champlain Cyanobacterial Harmful Algal Blooms	International Journal Of Environmental Research And Public Health	2015	10.3390/ijerph120911560
Sun, Deyong; Hu, Chuanmin; Qiu, Zhongfeng; Wang, Shengqiang	Reconstruction of hyperspectral reflectance for optically complex turbid inland lakes: test of a new scheme and implications for inversion algorithms	Optics Express	2015	10.1364/OE.23.00A718
Oyama, Yoichi; Fukushima, Takehiko; Matsushita, Bunkei; Matsuzaki, Hana; Kamiya, Koichi; Kobinata, Hisao	Monitoring levels of cyanobacterial blooms using the visual cyanobacteria index (VCI) and floating algae index (FAI)	International Journal Of Applied Earth Observation And Geoinformation	2015	10.1016/j.jag.2015.02.002
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Cicerelli, Rejane E.; Galo, Maria de L. B. T.	Multisource remote sensing applied to the detection of phytoplankton in inland waters	Revista Brasileira De Engenharia Agricola E Ambiental	2015	10.1590/1807-1929/agriambi.v19n3p259-265
Sun, Deyong; Hu, Chuanmin; Qiu, Zhongfeng; Shi, Kun	Estimating phycocyanin pigment concentration in productive inland waters using Landsat measurements: A case study in Lake Dianchi	Optics Express	2015	10.1364/OE.23.003055
Li, Linhai; Li, Lin; Song, Kaishan	Remote sensing of freshwater cyanobacteria: An extended IOP Inversion Model of Inland Waters	Remote Sensing Of Environment	2015	10.1016/j.rse.2014.06.009

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Chi, Guangyu; Ma, Jian; Shi, Yi; Chen, Xin	Hyperspectral remote sensing of cyanobacterial pigments as indicators of the iron nutritional status of cyanobacteria-dominant algal blooms in eutrophic lakes	Ecological Indicators	2016	10.1016/j.ecolind.2016.06.014
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Wang, Guoqing; Lee, Zhongping; Mishra, Deepak R.; Ma, Ronghua	Retrieving absorption coefficients of multiple phytoplankton pigments from hyperspectral remote sensing reflectance measured over cyanobacteria bloom waters	Limnology And Oceanography-Methods	2016	10.1002/lom3.10102
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Wang, Guoqing; Lee, Zhongping; Mouw, Colleen	Multi-Spectral Remote Sensing of Phytoplankton Pigment Absorption Properties in Cyanobacteria Bloom Waters: A Regional Example in the Western Basin of Lake Erie	Remote Sensing	2017	10.3390/rs9121309
Yan, Xiaohui; Zhou, Qi; Vincent, Melissa; Deng, Yan; Yu, Jiangfan; Xu, Jianbin; Xu, Tiantian; Tang, Tao; Bian, Liming; Wang, Yi-Xiang J.; Kostarelos, Kostas; Zhang, Li	Multifunctional biohybrid magnetite microrobots for imaging-guided therapy	Science Robotics	2017	10.1126/scirobotics.aaq1155
Marion, Jason W.; Zhang, Feng; Cutting, David; Lee, Jiyoung	Associations between county-level land cover classes and cyanobacteria blooms in the United States	Ecological Engineering	2017	10.1016/j.ecoleng.2017.07.032
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Zhu, Qing; Li, Junsheng; Zhang, Fangfang; Shen, Qian	Distinguishing Cyanobacterial Bloom From Floating Leaf Vegetation in Lake Taihu Based on Medium-Resolution Imaging Spectrometer (MERIS) Data	Ieee Journal Of Selected Topics In Applied Earth Observations And Remote Sensing	2018	10.1109/JSTARS.2017.2757006
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