




Home | Journal Papers | About CNKI | User Service | FAQ | Contact Us | [中文](#)

Full-Text Search :

《South-to-North Water Transfers and Water Science & Technology》 2005-03 [Add to Favorite](#) [Get Latest Update](#)

# Study on Ecosystem Services Valuation of the Baiyangdian Lake Wetland

LI Jian-guo, LI Gui-bao, WANG Dian-wu, XIE Hui-xian (Department of Water Environment, China Institute of Water Resources and Hydropower Research, Beijing 100038; College of Resource and Environmental Science of Agricultural University of Hebei, Baoding 071001; Institute of Environmental Sciences of Baoding, Baoding 072051, China)

The wetland is a particular ecosystem with multi-functions. The evaluation of wetland ecosystem value is an important way to manage and protect wetland. Through investigation and experiment in the Baiyangdian Lake wetland, by synthetically using economic, resource science and ecology method, the value assessment of wetland ecosystem has been conducted. The results showed that the total use value of the wetland ecosystem services is 71 792. 7×10<sup>4</sup>RMB/a, in it, the direct value is 34 678. 4×10<sup>4</sup> RMB/a, the indirect value is 37 114. 3×10<sup>4</sup> RMB/a. Finally, the value constitution of the Baiyangdian Lake wetland ecosystem service has been analyzed and discussed.

【Key Words】 : **wetland ecosystem services evaluation the Baiyangdian Lake**

【Fund】 : 国家自然科学基金资助项目(50179040 50379057)

【CateGory Index】 : X171



[Download\(CAJ format\)](#)



[Download\(PDF format\)](#)

CAJViewer7.0 supports all the CNKI file formats; AdobeReader only supports the PDF format.

## 【References】

Chinese Journal Full-text Database

10 Hits

- 1 REN Man-li (School of Resource Environment and Tourism, Anyang Teachers College, Anyang, Henan 455000); [Evaluation on the Serving Functions and Value of Urban Wetland Ecosystem](#)[J]; Journal of Anhui Agricultural Sciences; 2008-16
- 2 OUYANG Zhi-yun 1 MENG Qing-yi 2 MA Dong-chun 2 (1. Research Center for Eco-Environmental Science, Chinese Academy of Sciences, Beijing, 100085, China; 2. Beijing Hydraulic Research Institute, Beijing, 100048, China); [Water ecosystem services and water management of Beijing](#)[J]; Beijing Water; 2010-01
- 3 TANG Jie et al (College of Environment and Resources, Jilin University, Changchun, Jilin 130012); [Farmland Ecosystem Services Value Changes of Time Series in Baicheng City](#)[J]; Journal of Anhui Agricultural Sciences; 2011-25
- 4 TIAN Bing~(1,2), ZHANG Yi-wen~2, WEI Li-tao~2 (1. Institute of Mountain Hazards and Environment, Chinese Academy of Science, Sichuan Chengdu 610041, China; 2. College of Resources and Environment Sciences, Hebei Normal University, Hebei Shijiazhuang 050016, China); [Present Situation of Wetland and Sustainable Use in Hebei Province](#)[J]; Journal of Hebei Normal University (Natural Science Edition); 2007-01
- 5 Zhu Jing1 Wang Limin2 Jia Fengxia3 Zhang Wei1 Liu Jianchang1 Fan Xiuying1 (1. Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, Beijing 100085; 2. Baoding Survey and Design Institute of Water Conservancy, Baoding 071000; 3. Beijing Shunyi Environmental Protection Bureau, Beijing 101300); [Calculation methods and case study of wetland ecological water demand in Northern China](#)[J]; Chinese Journal of Environmental Engineering; 2007-11
- 6 YIN Shu-Bai~ 1, 2, LU Xiang-Guo~ 1 (1. Northeast Institute of Geography and Agroecology, Chinese Academy of Sciences, Changchun Jilin 130012, P.R. China; 2. Graduate School of Chinese Academy of Sciences, Beijing 100049, P.R. China); [Discussion on Some Problems of Rapid Assessment of Wetland Function](#)[J]; Wetland Science; 2006-01
- 7 ZHANG Bing-wen (Chengde Bureau for Hydrology and Water Resources Survey of Hebei Province, Chengde 067000, China); [The Impact Analysis to the Hydrological Elements Evolution on Water Eco-environment in Hebei Province](#)[J]; South-to-North Water Transfers and Water Science & Technology; 2010-01

## Similar Journals

- > Journal of Agro-Environment Science
- > Environmental Protection
- > Outlook
- > Journal of Huazhong Normal University (Natural Sciences)
- > Mining Technology
- > Journal of Hebei University (Natural Science Edition)
- > Railway Energy Saving & Environmental Protection & Occupational Safety and Health
- > Life World
- > Environment and Sustainable Development
- > Chinese Journal of Environmental Engineering

- 8 ZHANG Xue-zhi(Hydrology and Water Resources Survey Bureau of Hengshui City, Hengshui 053000, China);[Principles and Methods of Wetland Ecosystem Restoration of Hengshui Lake](#)[J];South-to-North Water Transfers and Water Science & Technology;2010-01
- 9 ZHANG Xue-zhi(Hengshui Bureau for Hydrology and Water Resources Survey of Hebei Province,Hengshui 053000,China);[Biodiversity Function Evaluation of the Hengshui Lake Wetland](#)[J];South-to-North Water Diversion and Water Science & Technology;2011-01
- 10 JIANG Hao,CHENG Lei-lei,YIN Chang-bin(Institute of Agricultural Resources and Regional Planning,CAAS,Beijing 100081,China);[On Ecosystem Services Valuation in Hongze Lake Wetland](#)[J];Research of Agricultural Modernization;2008-03

## 【Citations】

Chinese Journal Full-text Database

10 Hits

- 1 LIU Hong yu, LU Xian guo, LIU Zhen qian, YANG Qing, ZHANG Bai (Changchun Institute of Geography, Chinese Academy of Sciences, Changchun, Jilin 130021);[Study on Wetland Resources and Regional Sustainable Development in Liaohe Delta](#)[J];Scientia Geographica Sinica;2000-06
- 2 ZHUANG Da-Chang~1, DING Deng-Shan~1, DONG Ming-Hui~2 (1.Department of Urban and Resources Sciences, Nanjing University, Nanjing, Jiangsu 210093; 2. Economic and Resources and Environment Dept., Changde Normal University, Changde, Hunan 415000);[Wetland Resources Degeneration Eco-economical Benefit and Loss Evaluation in Dongting Lake](#)[J];Scientia Geographica Sinica;2003-06
- 3 ZHUANG Da-chang (Department of Urban and Resource NanJing University,NanJing 210093,Jiangsu,China);[THE EVALUATION OF THE ECOSYSTEM SERVICES VALUE IN DONGTING LAKE WETLAND](#)[J];Economic Geography;2004-03
- 4 LI Jian-guo, LI Gui-bao, CUI Hui-min, WANG Dian-wu (Department of Water Environment, China Institute of Water Resources and Hydropower Research, Beijing 100038, China; Agricultural University of Hebei, Baoding 071001, China;Water Environment Monitoring Center of Baoding City, Baoding 071001, China);[Degradation of Reed Wetland and Protection in Baiyangdian](#)[J];South-to-North Water Transfersomd and Water Science & Technology;2004-03
- 5 XIN Kun 1,XIAO Du\Ning 2 (1 Department of Biology,Hainan Normal College,Haikou 571158,China;2.The Institute of Applied Ecology, CAS, Shenyang 110016,China).;[Wetland Ecosystem Service Valuation— A Case Researches on Panjin Area](#)[J];Acta Ecologica Sinica;2002-08
- 6 Ouyang Zhiyun, Wang Rusong and Zhao Jingzhu ( Research Center for Eco Environmental Sciences,Academia Sinica,Beijing 100080). Chin.J.Appl.Ecol.,1999,10(5):635~640.;[Ecosystem services and their economic valuation.](#)[J];CHINESE JOURNAL OF APPLIED ECOLOGY;1999-05
- 7 Yin Chengqing;Lan Zhiwen and Yan Weijin (Research Center for Eco-Environmental Sciences, AcademiaSinica, Beijing 100085). .;[Retention of allochthonous nutrients by ecotones or Baiyangdian Lake](#)[J];CHINESE JOURNAL OF APPLIED ECOLOGY;1995-01
- 8 CUI Li-juan (Institute of Forestry,Chinese Academy of Forestry Science,Beijing100091,China);[Assessment on Zhalong Wetland value](#)[J];Journal of Natural Resources;2002-04
- 9 ZHAO Tong-qian,OUYANG Zhi -yun,WANG Xiao-ke,MIAO Hong,WEI Yan-chang (Research Center for Eco-Environmental Sciences,CAS,Beijing100080,China);[Ecosystem services and their valuation of terrestrial surface water system in China](#)[J];Journal of Natural Resources;2003-04
- 10 ZHUANG Da-chang 1 ,OU Wei-xin 2,3 ,DING Deng-shan 1 (1.Department of Urban and Resource,Nanjing University,Nanjing210093,China;2.Nanjing Institute of Geography and Limnology,CAS,Nanjing210008,China;3.Graduate School of the Chinese Academy of Sciences,Beijing100039,China);[Evaluation of the lake recovery area eco-economy benefit in Dongting Lake wetland](#)[J];Journal of Natural Resources;2003-05

## 【Co-references】

Chinese Journal Full-text Database

10 Hits

- 1 HE Shan-chun 1,ZHU Wen-zhong 2,WU Xiao-long 3, CHU Jiang 4,CAO Xin-hua 5,WANG Kang-min 2 (1.Anhui Provincial Natural Resources Conservation and Management Station, Heifei 230001,China; 2.Changjiang Natural Resources Areas in Anqing.;[Research on the resources and classification of wetlands in Anhui](#)[J];Journal of Anhui University(Natural Sciences);2002-02
- 2 LU Wei-yan et al(College of Humanities,Northwest A & F University,Yangling,Shaanxi 712100);[Analysis of the Necessity and Feasibility of the Wetland Ecological Benefit Compensation](#)[J];Journal of Anhui Agricultural Sciences;2007-21
- 3 ZHANG Jing-song et al(Bureau of Investigation and Plan of National Land Resource of Tieling,Tieling,Liaoling 112000);[Evaluation of the Ecosystem Service Value of Baishi Reservoir](#)[J];Journal of Anhui Agricultural Sciences;2008-09
- 4 QIN Zhao-su et al (Environment and Economics Department of Qinzhou University,Qinzhou Guangxi 535000);[A Study on the Exploitation and Utilization of Island Resources in Qinzhou in Guangxi Province](#)[J];Journal of Anhui Agricultural Sciences;2008-10

ROVINCE[J];Journal of Anhui Agricultural Sciences,2006-10

- 5 CAO Yu-Ping WANG Wei ZHANG Yong-Bing(College of Life Science, Hebei University, Baoding 071002, China);**Present Situation of Fish Stocks in Baiyangdian Lake**[J];Chinese Journal of Zoology;2003-03
- 6 YANG Bing-Bing YU Guo-Hai SUN Xiao-Wei ZOU Chang-Lin WANG Bong WANG Yong(Momoge Nature Reserve,Zhenlai Jilin 137316,China);**The Avifauna of Momoge Nature Reserve in Jilin Province**[J];Chinese Journal of Zoology;2006-06
- 7 XU Xuegong\ LIN Huiping\ FU Zaiyi (Department of Geography,Peking University,Beijing,100871) BU Rencang (Institute of Applied Ecology,Chinese Academy of Sciences,Shenyang,110015);**Regional Ecological Risk Assessment of Wetland in the Huanghe River Delta**[J];Acta Scientiarum Naturalium Universitatis Pekinesis;2001-01
- 8 PENG Jian~1,2) WANG Yanglin~1,2) CHEN Yanfei~1,2) LI Weifeng~1,2) JIANG Yiyi~1,2)(~1)College of Environmental Sciences, Peking University, Beijing, 100871; ~2)Center for Digital City and Urban Landscape, Shenzhen Graduate School, Peking University, Shenzhen, 518057);**Economic Value of Urban Ecosystem Services:A Case Study in Shenzhen**[J];Acta Scientiarum Naturalium Universitatis Pekinesis;2005-04
- 9 Anwar MOHAMMAT2,3) YANG Yuanhe2) GUO Zhaodi2) FANG Jingyun2) (2)Department of Ecology, College of Environmental Sciences, and Key Laboratory for Earth Surface Processes of the Ministry of Education, Peking University, Beijing, 100871; 3)Xinjiang Institute of Ecology and Geography, Chinese Academy of Sciences, Urumqi, 830011);**Grassland Aboveground Biomass in Xinjiang**[J];Acta Scientiarum Naturalium Universitatis Pekinesis;2006-04
- 10 YAN Xuqian, ZHANG Shuntang, YUAN Huaiyu Shandong Institute of Business and Technology, Yantai 264005, China Civil and Environmental Engineering School, University of Science and Technology Beijing, Beijing 100083, China;**Theory and method of ecosystem health assessment in a mining area**[J];Journal of University of Science and Technology Beijing;2005-03

#### China Proceedings of conference Full-text Database

6 Hits

- 1 Xue-Song Wu, Li Xin, Wen-Xuan Yin, Xi-Ying Shane, Lu Lu, Rory M. Watt, Kathryn S.E.Cheah, Jian-Dong Huang, De-Pei Liu, Chih-Chuan Liang (National Laboratory of Medical Molecular Biology, Institute of Basic Medical Sciences, Chinese Academy of Medical Sciences (CAMS) & Peking Union Medical College (PUMC), Beijing 100005, P. R. China and Department of Biochemistry, The University of Hong Kong, /F Laboratory Block, Faculty of Medicine Building, 21 Sasson Road, Pokfulam, Hong Kong SAR, China;**Single-Stranded Oligonucleotide-mediated Gene Repair Is Enhanced by Slowing Replication Fork Progression**[A];[C];2005
- 2 Li Yu, Qing-wei Li, O.A. Ryder, Ya-ping Zhang (Laboratory of Molecular Biology of Domestic Animals, and Cellular and Molecular Evolution, Kunming Institute of Zoology, Kunming 650223, China,Laboratory for Conservation and Utilization of Bio-resource, Yunnan University, Kunming 650091, China,Graduate School, Chinese Academy of Sciences, Beijing, China, Liaoning Normal University, Dalian 116029, China, Center for Reproduction of Endangered Species, Zoological Society of San Diego, P.O. Box 551, San Diego, CA 92112, USA );**Phylogenetic relationships within mammalian order Carnivora indicated by sequences of two nuclear DNA genes**[A];[C];2005
- 3 Yanxun Sun, Jiang Zhou, Xudong Liao, Yaxin Lu, Chuxia Deng, Peitang Huang, Quan Chen, Xiao Yang Genetic Laboratory of Development and Diseases, Institute of Biotechnology, 20 Dongdajie, Beijing 100071; National Key Lab of Bio-membrane and Membrane Engineering, Institute of Zoology, Chinese Academy of Sciences, Beijing 100080, P.R. China; National Institute of Diabetes, Digestive and Kidney diseases, Bethesda, MD 20892, USA.;**Disruption of Smad5 Gene Induces Mitochondria- Dependent Apoptosis in Cardiomyocytes**[A];[C];2005
- 4 LI Cheng-yun, U Jin-bin, ZHOU Xiao-gang, ZHANG Shao-song.DONG Airong, XU Ming-hui (Biotechnology Research Institute,Yunnan Academy of Agricultural Sciences, South Biotechnology Key Laboratory of National Agriculture Ministration, Kunming 650223, China; Plant Protection Research Institute, Yunnan Academy of Agricultural Sciences, Kunming 650205, China);**Distribution of microsatellites in open reading frame and function analysis of rice blast fungus, Magnaporthe grisea**[A];[C];2005
- 5 Zhang Wen,Cao Huai, Liu Ciquan (Department of Biology, Kunming Medical College, Kunming 650031; Modern Biology Research Center, Yunnan University, Kunming 650091);**Bolt-like Conformation of HIV-1 Fusion Peptide**[A];[C];2005
- 6 Chen Bin LI Zhengyue Yang Benli (College of Plant Protection, Yunnan Agricultural University, Kunming 650201);**Observation of the Chromosome of spermary of Maladera Sp**[A];[C];2005

#### [Secondary References]

##### Chinese Journal Full-text Database

10 Hits

- 1 ZHANG Hai-yan et al(Institute of Mountainous Area Research,Hebei Agricultural University,Baoding,Hebei 071001);**Research on the Present Situation of Wetland in Hebei Province**[J];Journal of Anhui Agricultural Sciences;2008-09
- 2 CAO Xiao-yu et al (Central South University of Forestry and Technology,Changsha,Hunan 410004);**Preliminary Exploration on Sustainable Utilization of Wetland Resources in Hunan Province**[J];Journal of Anhui Agricultural Sciences;2008-25
- 3 CHEN Li-jiang et al (Institute of Geographical Sciences,Hebei Academy of Sciences,Shijiazhuang,Hebei 050011);**Analysis on Types and Causes of Wetlands in the Mountainous Regions of Hebei Province**[J];Journal of

Anhui Agricultural Sciences;2011-01

- 4 DING Qiu-yi et al(State Key Lab of Water Environment Simulation,School of Environment,Beijing Normal University,Beijing 100875);**Wetland Function Degradation and Its Integrated Control**[J];Journal of Anhui Agricultural Sciences;2011-08
- 5 ZHOU Wei1,2,ZHAO Xiao-dong3,LI Xu1,2,YANG Jin-yu1,2(1.Faculty of Conservation Biology,Southwest Forestry University,Kunming,650224,P.R.China;2.Key Laboratory of Forest Disaster Warning and Control of Yunnan Province,Kunming,650224,P.R.China;3.Office of Natural Forestry Conservation,Yunnan Forestry Department,Kunming,650021,P.R.China);**Evaluation Index System of Wetland Ecotourism Management: Taking Four International Plateau Wetlands in Yunnan Province for Examples**[J];Journal of Beijing Forestry University(Social Sciences);2010-03
- 6 ZHAO Hui1,2,ZHANG Hai-ying2,LI Na-na3,YANG Gui-fang1 (1.School of Earth Sciences and Resources,China University of Geosciences,Beijing 100083;2.Institute of Remote Sensing Application,State Key Laboratory of Remote Sensing Science,CAS,Beijing 100101;3.China University of Mining and Technology,Beijing 100083,China);**RS-Based Research of Chinese Wetland:Status and Trend**[J];Geography and Geo-Information Science;2010-02
- 7 LU Xian-Guo,LIU Xiao-Hui (Northeast Institute of Geography and Agroecology,Chinese Academy of Sciences,Changchun,Jilin 130012);**Wetland Research Progresses in China—Dedicated to the 50th Anniversary of Northeast Institute of Geography and Agroecology,CAS**[J];Scientia Geographica Sinica;2008-03
- 8 TANG Jie et al(College of Environment and Resources,Jilin University,Changchun,Jilin 130012);**Farmland Ecosystem Services Value Changes of Time Series in Baicheng City**[J];Journal of Anhui Agricultural Sciences;2011-25
- 9 XIAO Wen-jun1,XU Chun-rong2(1.Office of Utilizing Foreign Capital,Jiangxi Forestry Department,Nanchang 330038,China;2.Xuyi Garden Administrative Department,Xuyi 211700,China);**Function and Advance of Urban Wetland**[J];Journal of Hebei Agricultural Sciences;2010-03
- 10 WANG Yan1,WANG Yan1,2,LI Shaoshan1, SUN Ruyong1(1.School of Life Science,South China Normal University,Guangzhou 510631,China;2.College of Science and Engineering,Jinan University,Guangzhou 510632,China);**VALUATION OF ECOLOGICAL SERVICE FUNCTION OF FUTIAN MANGROVES AND BIRDS NATIONAL NATURE RESERVE,SHENZHEN**[J];Journal of South China Normal University(Natural Science Edition);2010-03

#### China Proceedings of conference Full-text Database

1 Hits

- 1 Liu Guangping,Yang Hong College of Marine,Shanghai Ocean University,Shanghai 200090,China;**Evaluation of Estuary Ecosystem Services:A case study in Shanghai Yangtze Estuary**[A];[C];2008

### 【Secondary Citations】

#### Chinese Journal Full-text Database

10 Hits

- 1 Chen Gangqi Zhang Wenfen (Changchun Institute of Geography,Academia Sinica);**A PRELIMINARY APPROACH TO THE INFLUENCE OF THE SWAMPS IN THE THREE RIVER PLAIN ON RIVER RUNOFF**[J];Scientia Geographica Sinica;1982-03
- 2 LIU Hong yu, LU Xian guo, LIU Zhen qian, YANG Qing, ZHANG Bai (Changchun Institute of Geography, Chinese Academy of Sciences, Changchun, Jilin 130021);**Study on Wetland Resources and Regional Sustainable Development in Liaohe Delta**[J];Scientia Geographica Sinica;2000-06
- 3 CUI Bao shan LIU Xing tu (Changchun Institute of Geography, Chinese Academy of Sciences, Changchun, Jilin 130021);**Ecological Character Changes and Sustainability Management of Wetlands in the Yellow River Delta**[J];Scientia Geographica Sinica;2001-03
- 4 LI Shuang cheng 1, ZHENG Du 2, ZHANG Yi li 2 (1.Department of Urban and Environmental Sciences; The Center for Land Studies; Laboratory for Earth Surface Processes, the Ministry of Education, Peking University, Beijing 100871; 2.Institute of Geo;**Regional Evaluating Paradigm for Ecological Services of Environment and Ecosystems**[J];Scientia Geographica Sinica;2002-03
- 5 Bian Hong-xaing (Department of Geography, Hunan Teachers' Normal College) Gong Xun-li (Hunan Institute of Economic Geography);**PRELIMINARY STUDY ON THE RECLAMATION PROBLEMS IN THE DONGTING LAKE AREA**[J];Acta Geographica Sinica;1985-02
- 6 HUANG Jin liang (Institute of Geodesy and Geophysics, CAS, Wuhan\ 430077, China);**The area change and succession of Dongtinghu wetland**[J];GEOGRAPHICAL RESEARCH;1999-03
- 7 CUI Bao shan, LIU Xing tu (Changchun Institute of Geography, Chinese Academy of Sciences, Changchun 130021, China);**Ecological Character Changes and Sustainability Management of Wetland in the Sanjiang Plain**[J];AREAL RESEARCH AND DEVELOPMENT;1999-03
- 8 LI Jingbao 1 ZHU Xiang 1 LI Min 2 (1:Land and Resources College, Hunan Normal University, Changshan, 410081,China; 2: Yiyang Teacher's School, Yiyang 413000, China);**On the Surviving Condition of Oncomelania hupensis in Dongting Lake Area and Epidemic Prevention by Ecological Methods**[J];JOURNAL OF LAKE SCIENCE;2000-02
- 9 REN Zhi-Yuan (College of Tourism and Environment Sciences, Shaanxi Normal University, Xi'an 710062, Shaanxi, China);**THEORIES AND METHOD OF EVALUATING REGIONAL ECOSYSTEM ENVIRONMENT SERVICE ECONOMIC VALUE**[J];Economic Geography;2003-01

10 Wang Kelin (Changsha Institute of Agricultural Modernization,Chinese Academy of Sciences,CHANGSHA 410125);[Research on Comprehensive Management and Construction of Multiecosystem in Dongting Lake Region.](#)[J];RURAL ECO-ENVIRONMENT;1999-02

©2006 Tsinghua Tongfang Knowledge Network Technology Co., Ltd.(Beijing)(TTKN) All rights reserved

