




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

Full-Text Search :

《Chinese Journal of Ecology》2008-09

[Add to Favorite](#) [Get Latest Update](#)
[Similar Journals](#)

Valuation of lake wetland ecosystem services of Yinchuan City

SHAO Ning-ping, LIU Xiao-peng, QU Xiao-yi (School of Resource and Environment, Ningxia University, Yinchuan 750021, China)

Yinchuan City is a typical oasis area in arid and semi-arid region of Northwest China, and its lake wetland is a kind of most characteristic and significant ecological resources. By the methods of market price, shadow price, substitute expense, expenditure, carbon tax, outcome reference, and shadow engineering, etc., the lake wetland ecosystem services of the city were evaluated. The results showed that this ecosystem provided a total of 130 288×10⁴ yuan services per year, among which, the service of material production was the largest (54 765×10⁴ yuan), followed by that of climatic regulation (25 851×10⁴ yuan), biological diversity (20 000×10⁴ yuan), recreation (9 661×10⁴ yuan), teaching and scientific research (7 460×10⁴ yuan), water conservation and flood-and drought control (5 360×10⁴ yuan), habitat (5 000×10⁴ yuan), water supply (1 889×10⁴ yuan), and water purification and environmental landscaping (302×10⁴ yuan). Therefore, in the economic development and urban expansion of Yinchuan City, a scientific utilization and protection of its wetland resources should be taken, based on the consideration of whole ecosystem.

【Key Words】 : **lake wetland ecosystem services valuation Yinchuan City.**

【Fund】 : 国家社会科学基金项目(04CJY005);; 宁夏高等学校科学研究资助项目

【CateGory Index】 : X826



[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

1 Hits

- 1 LI Wei-De¹, WANG Ji-Quan² Institute of Bioinformatics, School of Mathematics and Statistics, Lanzhou University, Lanzhou 730000, China² The State Key Laboratory of Frozen Soil Engineering, Institute of Cold and Arid Regions Environment and Engineering, Chinese Academy of Sciences, Lanzhou 730000, China; **Model of ecosystem risk based on natural capital: a case study**[J]; Acta Ecologica Sinica; 2009-07

【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 Wang Yiming Office of Territorial Management of Ningxia; **THE HISTORICAL CHANGES AND FUTURE UTILIZATION OF LAKES IN YINCHUAN**[J]; Journal of Arid Land Resources & Environment; 1992-01
- 4 WANG Yi -ming (Geography Depart. ,Ningxia University, Yinchuan 750021,China.); **Experience and lessons of Wetland's Conservation and Utilization in Ningxia Plain**[J]; Journal of Arid Land Resources & Environment; 2004-06
- 5 XIN Kun 1, XIAO Du^{~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

- > Areal Research and Development
- > Territory & Natural Resources Study
- > Scientific and Technological Management of Land and Resources
- > Journal of Wuhan University(Natural Science Edition)
- > Cards World
- > Research of Environmental Sciences
- > Chinese Community Doctors
- > Resources and Environment in the Yangtze Basin
- > Journal of Ningxia University(Natural Science Edition)
- > Disaster Reduction In China

- 6 WANG Wei, LU Jian-Jian~*(State Key Laboratory of Estuarine and Coastal Research, East China Normal University, Shanghai 20062, China); [Ecosystem services and their value of Sanyang Wetland](#)[J]; Acta Ecologica Sinica; 2005-03
- 7 HE Wenqing 1, CHEN Yuanquan 1, GAO Wangsheng 1**, YIN Cunbao 2(1 College of Agronomy and Biotechnology, China Agricultural University Beijing 100094, China; 2 Soil Fertilizer Station of Wulanchabu Region, Jining 012000, China); [Economic value of agroecosystem service in typical wind-erosion region of transition zone between agriculture and pasture](#)[J]; Chinese Journal of Ecology; 2004-03
- 8 CUI Lijuan (Research Institute of Forestry, Chinese Academy of Forestry, Beijing 100091, China); [Evaluation on functions of Poyang Lake ecosystem](#)[J]; Chinese Journal of Ecology; 2004-04
- 9 ZHAO Xinsheng, CUI Baoshan, YANG Zhifeng (Institute of Environmental Science, Beijing Normal University, Beijing 100875, China); [Energy analysis of ecological benefit in mangrove wetland—Case study of the Nineteenth Chong mangrove wetland in Nansha](#)[J]; Chinese Journal of Ecology; 2005-07
- 10 ZHAO Shujiang~(1,2), LIANG Bing~2, ZHANG Shuyi~2 (~1 School of Life Science, Wenzhou Medical College, Wenzhou 325035, China; ~2 Institute of Zoology, Chinese Academy of Sciences, Beijing 100080, China); [Wetland ecosystem in Xiushan Island of Zhejiang Province](#)[J]; Chinese Journal of Ecology; 2006-03

【Co-citations】

Chinese Journal Full-text Database

10 Hits

- 1 ZHAO Xu-yang et al (The Resource and Environmental Sciences Department, College of Shijiazhuang, Shijiazhuang, Hebei 050035); [Research on the Function Evaluation and Development of Ecotourism Resource in Hutuo River Wetland Guanghuang Area](#)[J]; Journal of Anhui Agricultural Sciences; 2006-15
- 2 NIU Yong-jun et al (Department of Disaster-Prevention Technique, Institute of Disaster-Prevention Science and Technology, Beijing 101601); [Research on Wetland Dynamic Variation in Tanghai](#)[J]; Journal of Anhui Agricultural Sciences; 2007-17
- 3 NIU Yong-jun et al (Disaster-Prevention Department, Institute of Disaster-Prevention Science and Technology, Beijing 101601); [Analysis of the Resources in the Tanghai Wetland and Their Features](#)[J]; Journal of Anhui Agricultural Sciences; 2007-21
- 4 ZHANG Jing-song et al (Bureau of Investigation and Plan of National Land Resource of Tieling, Tieling, Liaoning 112000); [Evaluation of the Ecosystem Service Value of Baishi Reservoir](#)[J]; Journal of Anhui Agricultural Sciences; 2008-09
- 5 ZHAO Mei-ling et al (College of Landscape Architecture and Tourism, Hebei Agricultural University, Baoding, Hebei 071000); [Evaluation on the Ecosystem Services of Nanhu Wetland Park in Tangshan City](#)[J]; Journal of Anhui Agricultural Sciences; 2008-14
- 6 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
- 7 ZHOU Li-biao et al (College of Life Science and Engineering, Northern University for Nationalities, Yinchuan, Ningxia 750021); [Some Problems on Planning and Construction of Yinchuan National Wetland Park](#)[J]; Journal of Anhui Agricultural Sciences; 2008-22
- 8 LI Jiang-rong et al (Faculty of Tourism and Geographic Science, Yunnan Normal University, Kunming, Yunnan 650092); [Construction and Realization of Geological Information System of Urban Wetland in Dianchi Basin](#)[J]; Journal of Anhui Agricultural Sciences; 2009-11
- 9 HUANG Xiang~(1,3) LI Wei-Hong~2 (1.2 Xinjiang Institute Of Ecology and Geography, Chinese Academy Of Sciences, Urumqi 830011, China; 3. Graduate School, Chinese Academy of Sciences, Beijing 100039, China); [Study of the Function and Value of Ecosystem of Hungriness](#)[J]; Environmental Science and Management; 2006-07
- 10 Li Qinglan1, Ren Jun1, Xu Jiangkun2, Tao Ling1 (1. Institute of Environmental Ecology Environmental science and municipal engineering of Lanzhou Jiaotong University, Lanzhou 730070, China; 2. Jiangsu Xinyuan Environmental protection Co., Ltd, Nanjing 210004, China); [Economic Value of Urban Vegetation Ecosystem Services: A Case Study in Lanzhou](#)[J]; Environmental Science and Management; 2008-01

China Proceedings of conference Full-text Database

2 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
- 2 Chen Zengqi Chen feixing Li Zhanling Chen Yi Zhejiang Design Institute of Water Conservancy & Hydroelectric Power, Hangzhou, Zhejiang, 310002 Beijing Normal University Environmental Institute, Beijing 100875 Biological and Environmental Institute, Zhejiang Industrial University, Hangzhou, Zhejiang, 310014; [Comprehensive Evaluation Model Study on Ecological Economy in Coastal Wetlands](#)[A]; [C]; 2004

【Co-references】

Chinese Journal Full-text Database

10 Hits

- 1 ZHANG Zhi qiang^{1,2}, XU Zhong min¹, WANG Jian¹, CHENG Guo dong¹ (1.State Key Laboratory of Frozen Soil Engineering, CAREERI,CAS, Lanzhou Gansu730000, China; 2.Scientific Information Center for Resources and Environment, CAS;[Value of the Ecosystem Services in the Heihe River Basin](#)[J];Journal of Glaciology and Geocryology;2001-04
- 2 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 Naturalum Universitatis Pekinesis;2001-01
- 3 XU Zhongmin, CHENG Guodong, WANG Genxu (State Key Laboratory of Frozen Soil Engineering,LIGG,CAS,Lanzhou 730000,China);[A STUDY ON THE ESTIMATION OF ECONOMIC LOSS FROM ECOLOGICAL DETERIORATION — TAKE ZHANGYE PREFECTURE AS AN EXAMPLE](#)[J];ADVANCE IN EARTH SCIENCES;1999-05
- 4 FU Zai yi, XU Xue gong (Department of Geography, Peking University, Beijing 100871,China);[REGIONAL ECOLOGICAL RISK ASSESSMENT](#)[J];Advance In Earth Sciences;2001-02
- 5 LI Wei-de, LI Zi-zhen, WANG Ji-quan Institute of Bioinformatics, School of Mathematics and Statistics, Lanzhou University, Lanzhou 730000, China. Key Laboratory of Arid and Pastoral Agwecology of the Ministry of Education, Lanzhou University, Lanzhou 730000, China Institute of Cold and Arid Regions Environment and Engineering, Chinese Academy of Sciences, Lanzhou 730000, China;[Evaluation of oasis ecosystem risk by reliability theory in an arid area: A case study in the Shiyang River Basin, China](#)[J];环境科学学报(英文版);2007-04
- 6 OUYANG Zhi Yun WANG Xiao Ke MIAO Hong (Research Center for Eco Environmental Sciences,Chinese Academy of Sciences,Beijing 100080,China);[A primary study on Chinese terrestrial ecosystem services and their ecological-economic values](#)[J];ACTA ECOLOGICA SINICA;1999-05
- 7 FU Zai Yi 1,XU Xue Gong 1,LIN Hui Ping 1,WANG Xian Li 2 (1.Department Of Geography, Peking University, Beijing 100871, China;2.Institute of Applied Ecology, Chinese Academy of Sciences, Shenyang 110015, China);[Regional ecological risk assessment of in the Liaohe River Delta wetlands](#)[J];Acta Ecologica Sinica;2001-03
- 8 ZHANG Zhi-Qiang^{1,2}, XU Zhong-Min¹, CHENG Guo-Dong¹ (1.State Key Laboratory of Frozen Soil Engineering, Cold and Arid Regions Environmental and Engineering Research Institute, CAS, Lanzhou 730000,China;2.Scientific Information Center for Resource;[Valuation of ecosystem services and natural capital](#)[J];Acta Ecologica Sinica;2001-11
- 9 CHEN Hui 1,2, LIU Jin-Song², CAO Yu 4, LI Shuang-Cheng³, OUYANG Hua¹ (1.The Institute of Geographical Sciences and Natural Resources Research, CAS, Beijing 100101, China; 2.College of Resources and Environmental Sciences, Hebei Normal University, Shijiazhuang 050016,China; 3.College of Environmental Sciences, Peking University, Beijing 100871, China; 4. College of Southeast Land Management, Zhejiang University, Hangzhou 310029,China).;[Progresses of ecological risk assessment](#)[J];Acta Ecologica Sinica;2006-05
- 10 Li Guoqi(Bio-engineering Institute of Ningxia University,Yinchuan 750021),An Shuqing,Chen Xinglong,Zhang Jiu hai,Tan Jiankang,Zhu Xuelei(Biological Science and Technology Department of Nanjing University ,210093),Zhang Jilin(Jiangsu Forestry Scien;[A Summary on Ecological Risk Assessment.](#)[J];CHINESE JOURNAL OF ECOLOGY;1999-04

【Secondary Citations】

Chinese Journal Full-text Database

10 Hits

- 1 RAN Xing-yan (Beijing Municipal Institute of Hydraulic Engineer & Planning Design & Research, 100044, China);[Discussion on urban water environment rehabilitation](#)[J];Beijing Water Resources;2001-04
- 2 SHU Xiao bo, LIU Ying, XIONG Xiao ying (College of City and Environment, Jiangxi Normal University, Nanchang 330027,China);[Ecological Environment Factors of Flooding Disasters and Countermeasures of Reducing Disasters in Poyang Lake Region](#)[J];Journal of Jiangxi Normal University (Natural Sciences Edition);2001-02
- 3 WU Ling-ling 1 ,LU Jian-jian 1 ,TONG Chun-fu 1 ,LIU Cun-qi 1,2 (1.State Key Lab.of Estuarine and Coastal Research,East China Normal University,Shanghai200062,China;2.College of Life Science,Hebei University,Baoding071002,China);[VALUATION OF WETLAND ECOSYSTEM SERVICES IN THE YANGTZE RIVER ESTUARY](#)[J];Resources and Environment in the Yangtze Basin;2003-05
- 4 Author SuiChunhua,LanShengfang (DepartmentofBiology,SouthChinaAgricultureUniversity,Guangzhou510642)HZ;[PrincipleandMeasureofUrbanEcosystemEMA](#)[J];CHONGQING ENVIRONMENTAL SCIENCE;1999-02
- 5 CHAO Lou-meng LI Xiao-lin YU Kong-jian;[The Ecological Function and Sustainable Utilization of Urban Wetland](#)[J];Urban Problems;2003-03
- 6 ZHANG Xue-qin CAO Guang-jie;[Problems and solutions for water quality in urban aquatic entironment](#)[J];Urban Problems;2005-04
- 7 Cai Ruxing, Zheng Feng, Wang Yihao, Ding Yaoping, Yu Zhuoming, Zhou Yingzhang, Jiang Lianghao, Shao Weihui (Hangzhou University,Hangzhou,310028);[Studies on ecology of Zhoushan intertidal zone II.Quantities and distributions](#)[J];Donghai Marine Science;1991-03
- 8 YU Guo ying (Lab for Wetland Process and Environment, Changchun Institute of Geography, The Chinese Academy of Science, Changchun 130021);[Views of Some Basic Problems on Wetland Researches](#)[J];Progress In Geography;2001-02
- 9 YANG Yong xing (Laboratory of Process and Environment, Changchun Institute of Geography, CAS, Changchun, 130021 China);[Main Characteristics. Progress and Prospect of International Wetland Science Research](#)[J];Progress In Geography;2002-02

SUN Guangyou, WANG Haixia, YU Shaopeng(Northeast Institute of Geography and Agricultural Ecology, CAS, Changchun 130012; Capital
10 Nonnal University, Beijing 100037; Shanghai Nonnal University, Shanghai 200234, China;Harbin University, Harbin 150086);[The Advance of Urban Wetland Study](#)[J];Progress In Geography;2004-05

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

