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New Science and Technology Journals

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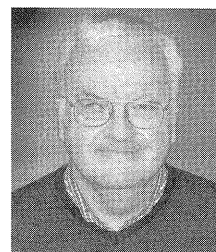
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Bridge Structures: Assessment, Design and Construction. 1573-2487. Taylor & Francis. v.1, 2005. 4/year. \$279.00. <http://www.tandf.co.uk/journals/titles/15732487.asp>

Bridge Structures: Assessment, Design and Construction aims to present the transformation of theoretical knowledge into guidelines and specifications that are compliant with the technical constraints of bridge engineering design. Papers are written by researchers, designers, fabricators and contractors of significant bridge projects, covering a wide range of topics and interests to bridge engineers from all over the world. The main difference from existing journals and the reason why Bridge Structures is of particular interest to engineers working in the field is that the focus is on practical issues. This journal is intended to narrow the gap between researchers and practitioners to provide bridge engineers with state-of-the-art solutions to the emerging challenges and problems confronting the bridge engineering community.

Current Nanoscience. 1573-4137. Bentham Science Publishers. v.1, 2005, 3/year. <http://www.bentham.org/cnano/index2.htm>

In the last two decades and particularly in the last 10 years, nanoscience has evolved rapidly. Molecular analysis techniques are now being developed using nanocluster optical resonance devices. The optical properties of metallic nanostructures are being studied with the purpose of developing material systems for micro- and nano-optic devices. Single-walled carbon nanotube-based field effect transistors are being developed with good memory effects. Nanoflow liquid chromatography is being applied successfully to applications in the fast growing field of proteomics. Nano-scale DNA computing devices are being developed which may one day replace silicon devices with nano-scale molecular-based computational materials. Current Nanoscience explores these and other technical applications of this rapidly developing field.

Elements: an International Magazine of

Mineralogy, Geochemistry, and Petrology. 1811-5209. v.1, 2005. 5/year. Included with membership in any of the sponsoring societies <http://www.elementsmagazine.org/>

A publication of the Mineralogical Society of America, the Mineralogical Society of Great Britain and Ireland, the Geochemical Society, the Mineralogical Association of Canada, The Clay Minerals Society, the International Association of GeoChemistry and the European Association for Geochemistry, Elements explores themes of broad and current interest in the mineral and geochemical sciences. The journal also presents regular features like a calendar of events, short course announcements, highlights of groundbreaking papers, awards, conference reports, policy news, as well as news of the Societies. In addition, Elements publishes invited peer-reviewed papers. Topics covered in the 2005 issues include ore-forming fluids; volatiles in magmatic-volcanic systems; water in the mantle; fluids, faulting and flow; extraterrestrial water; diamonds; and toxic metals in the environment.

International Journal of Metadata, Semantics and Ontologies (IJMSO). 1744-2621. Inderscience Publishers. v.1, 2005. 4/year. \$450.00. <http://www.inderscience.com/browse/index.php?journalID=152>

The main objective of IJMSO is to provide an open forum in which several disciplines converge and provide their perspectives regarding the complex topic of metadata creation, use and assessment. Those disciplines include digital libraries, the semantic web, library science and knowledge management, among others. IJMSO publishes research advances and discussions about metadata in a broad sense, and about their associated semantics and ontological structures, from a multidisciplinary perspective. It will emphasize domain-specific ontologies and organizational and human interaction, as well as social issues regarding metadata annotation, use and assessment. It also intends covering semantic web research.

International Journal of Microstructure and Materials Properties (IJMMP). 1741-8410. Inderscience Publishers. v.1, 2005. 4/year. \$450.00. <http://www.inderscience.com/browse/index.php?journalID=111>

IJMMP publishes contributions on various mechanical, electrical, magnetic and optical properties of metal, ceramic and polymeric materials in terms of the crystal structure and microstructure. Papers treat all aspects of materials, i.e., their selection, characterization and evaluation in the phase of decision making in design and manufacturing of a new product. Papers in the fields of product design, improvement of material properties in various production processes such as casting, sintering, forming, welding and related processes of material joining, heat treatment, surface modification and various thermo- mechanical treatment processes, are welcome.

International Journal of Number Theory (IJNT). 1793-0421. World Scientific. v.1, 2005. 4/year. \$190.00. <http://www.worldscinet.com/ijnt/ijnt.shtml>

This journal publishes original research papers and review articles on all areas of number theory, including elementary, analytic, and algebraic number theory, arithmetic algebraic geometry, geometry of numbers, diophantine equations, and other areas.

International Journal of Six Sigma and Competitive Advantage (IJSSCA). 1479-2494. Inderscience Publishers. v.1, 2004. 4/year. \$450.00. <http://www.inderscience.com/browse/index.php?journalID=101>

International Journal of Six Sigma and Competitive Advantage (IJSSCA) aims to provide a communication medium for all those who are working in operations management, quality management, quality engineering and industrial engineering. IJSSCA also addresses new developments and thinking in the field of Six Sigma. Today, Six Sigma is recognized in many world class organizations as an effective means of achieving and maintaining operational excellence and competitive advantage. IJSSCA publishes papers that address Six Sigma issues from the perspectives of customers, industrial engineers, business managers, management consultants, industrial statisticians and Six Sigma practitioners.

Landscape and Ecological Engineering. 1860-1871. Springer. v.1, 2005. <http://www.springeronline.com/sgw/cda/frontpage/0,11855,4-40109-70-40628339-0,00.html>

Landscape and Ecological Engineering is published by the International Consortium of Landscape and Ecological Engineering (ICLEE) in the interests of protecting and improving the environment in the face of biodiversity loss, desertification, global warming, and other environmental conditions. The journal is not limited to purely scientific approaches, but welcomes technological and design approaches that provide useful and practical solutions to today's environmental problems. The journal's coverage is relevant to universities and research institutes, with an emphasis on the practical application of research important to all decision makers dealing with landscape planning and management problems.

Nanotoxicology. 1643-5390. Taylor & Francis. v.1, 2005. 4/year. \$280.00. <http://www.tandf.co.uk/journals/titles/17435390.asp>

This journal invites contributions addressing research into the interactions between nano-structured materials and living matter. This interaction has been dubbed the 'wet dry interface'. Although much of the activity of the journal involves investigations of the biological interactions with nano-scale materials, its scope includes all man-made nano-structured materials, including the interactions between living tissues and the surfaces of prostheses (e.g. wearing can produce nanoparticles) or in the context of 'eco-nanotoxicology' (i.e. the movement of nanomaterials through the biosphere, interactions with bacteria, invertebrates and vertebrates). Nanotoxicology publishes WebFirst (www.tandf.co.uk/journals/webfirst/), which means that it is made available as multiple online issues throughout the year, with a single print archive copy of the entire volume being published at the end of the year. Access to the online version is included in all subscriptions.

Small nano micro. 1613-6810. Wiley-VCH. v.1, 2005. 12/year. \$658.00. <http://www.wiley-vch.de/publish/en/journals/newJournals/2421/?sID=d05b> and <http://www3.interscience.wiley.com/cgi-bin/jhome/107640323>

Small nano micro presents experimental and theoretical studies of fundamental and applied research in biology, medicine, chemistry, materials

science, physics, and engineering at the micro and nano scales. The journal focuses on synthetic procedures such as self-assembly, nanomanipulation, biomimetics, biomineralization, lithography, patterning/ printing. In the materials arena, Small nano micro covers 1D nanostructures (wires, tubes, rods, etc.), nanoparticles/ quantum dots/ colloids/ core-shell structures/ capsules, fullerenes, organic/ inorganic/ polymer/ hybrid materials, nanostructured materials, biomaterials, and nanoporous materials. Additional applications include sensors, molecular devices, MEMS/ NEMS, micro- and nanofluidics, lab-on-a-chip devices, catalysis, tribology, DNA/ protein/ peptide studies, drug delivery, cell research, diagnostics, and labeling.

advances in maintenance, management and life-cycle performance of a wide range of infrastructures such as buildings, bridges, dams, underground constructions, offshore platforms, pipelines, naval vessels, ocean structures, nuclear power plants, airplanes and other types of structures including aerospace and automotive structures. The aim of the journal is to present research and developments on the most advanced technologies for analyzing, predicting and optimizing infrastructure performance. The journal will provide a forum for a broad blend of scientific, technical and practical papers to fill the gaps between researchers and practitioners.❖

Structure & Infrastructure Engineering: Maintenance, Management, Life-Cycle Design & Performance. 1573-2479. Taylor & Francis. v.1, 2005. 4/year. \$259.00. <http://www.tandf.co.uk/journals/titles/15732479.asp>

Structure & Infrastructure Engineering is an international journal dedicated to recent

How Do Scientists and Engineers Access the Literature?

**By Christina K. Pikas, Johns Hopkins University Applied Physics Laboratory,
R. E. Gibson Library and Information Center**

The increasing pace of digitization of journals and monographs has renewed interest in how scientists and engineers access the literature. Below are a few citations of articles we're reading on the topic.

1. Kraus, Joseph R. Summer 2005. Comparing Journal Use Between Biology Faculty and Undergraduate Students. *Issues in Science and Technology Librarianship* 43, <http://www.istl.org/05-summer/article2.html>.
2. Newby, Jill. 2005. An emerging picture of mathematicians' use of electronic resources: the effect of withdrawal of older print volumes. *Science & Technology Libraries* 25, no. 4: 65-85.
3. Palmer, Carole L. 2005. Scholarly work and the shaping of digital access. *Journal of the American Society for Information Science and Technology* 56, no. 11: 1140-53.
4. Tenopir, Carol and others. 2005. Relying on electronic journals: Reading patterns of astronomers. *Journal of the American Society for Information Science and Technology* 56, no. 8: 786-802.❖