

Assessment of Library Collections  
Florida International University  
**Mechanical and Materials Engineering**  
College of Engineering and Computing  
BS to PhD programs in Mechanical Engineering  
MS and PhD programs in Materials Engineering  
April 6, 2009

This report was prepared by Tony Schwartz, Associate Director for Collection Management, and Patricia Pereira-Pujol, Sciences Librarian.

### **Conference Proceedings**

For the College of Engineering and Computing, FIU has access to the following online series that include full-text conference proceedings: Association for Computing Machinery Digital Library; IEEE/IET Electronic Library; and Springer *Lecture Notes in Computer Science*, which includes subseries *Lecture Notes in Artificial Intelligence* and *Lecture Notes in Bioinformatics*.

### **Journals**

#### Library subscriptions by general count

FIU has 4,129 online journals in engineering and computer science, of which 943 are in mechanical engineering and 103 in materials science ([Table 1](#)).

The numbers of print-journal subscriptions for Engineering and Computing is nearly zero as the library has shifted such subscriptions to online access.

The online-journal packages of importance to Engineering and Computing include Academic Press, ACM Digital Library, American Chemical Society, American Institute of Physics, American Physical Society, American Society of Civil Engineers, American Society of Mechanical Engineers, American Statistical Association, Annual Reviews Complete, Berkeley Electronic Press, Blackwell-Synergy, Cambridge STM, EDP Sciences, Elsevier ScienceDirect, IEEE/IET Electronic Library, Institute of Physics, JSTOR Arts and Sciences Collections I-IV, MD Consult Core Collection, Nature, Oxford, Royal Society of Chemistry, SAGE Premier, SpringerLink, and Wiley InterScience.

#### Citation-ranked literatures

Mechanical Engineering: FIU has 61 (60%) of the 102 titles, including 77% of the top third (26 of those 34) titles ([Table 2](#)). In 2003, FIU had 39 (38%); 22 titles have been added.

Materials Science, Multidisciplinary: FIU has 94 (53%) of the 177 titles, including 75% of the top third (45 of those 60) titles ([Table 3](#)). In 2005, FIU had 42 (24%) of the 177 titles; 70 titles have been added.

### **Main Databases for Mechanical and Materials Engineering**

- Compendex (Engineering Index) (includes conference proceedings)
- Engineering Research Database (contains Mechanical & Transportation Engineering Abstracts; includes conference proceedings)
- Materials Research Database with METADEX (includes conference proceedings)
- Mechanical Engineering Abstracts (includes conference proceedings)

### **Other Databases for Mechanical and Materials Engineering**

- ABI Inform
- AGRICOLA (includes conference proceedings)
- ASFA: Aquatic Sciences and Fisheries Abstracts (includes conference proceedings)
- Biological Abstracts (BIOSIS)
- Biological Sciences (includes conference proceedings)
- Biotechnology and Bioengineering Abstracts
- Chemical Abstracts (SciFinder Scholar) (includes conference proceedings)
- Computer and Information Systems Abstracts
- Conference Papers Index (conference proceedings, etc.)
- Current Index to Statistics (includes conference proceedings)
- Dissertations & Theses
- Electronics and Communications Abstracts (includes conference proceedings)
- Engineering Village
- Environmental Sciences and Pollution Management (includes conference proceedings)
- GeoBase
- GeoRef
- GreenFILE
- History of Science, Technology, and Medicine
- INSPEC (includes conference proceedings)
- MathSciNet (includes conference proceedings)
- MEDLINE
- MicroPatent Materials Patents
- NTIS (National Technical Information Service)
- Oceanic Abstracts
- PapersFirst (conference proceedings, etc.)
- Proceedings (conference proceedings, etc.)
- PsycINFO
- Safety Science and Risk
- Science Citation Index
- Solid State and Superconductivity Abstracts (includes conference proceedings)
- SPORTDiscus

- TOXLINE

### Online Series

- CRC Handbook of Chemistry & Physics
- CRC EngNetBase

Undergraduate-Level Databases: Academic OneFile, Applied Science and Technology Full Text (includes conference proceedings), Biology Digest, General Science Full Text (includes conference proceedings), and OmniFile Full Text Mega (includes conference proceedings).

### Books

The book approval plan has a broad subject parameter to receive all titles on *contemporary social or public policy aspects of science, engineering, and technology*, and all engineering handbooks.

For the PhD and the management programs of the College of Engineering and Computing the library receives through the approval plan advanced academic-level books with notification slips for professional-level books. Such programs include mechanical engineering, general technology, biomedical engineering, civil engineering, electrical engineering, electronics, and nuclear engineering.

The library relies on notification slips for direct orders for the following (non-PhD) programs: hydraulic engineering, environmental technology, highway engineering, railroad engineering, bridge engineering, motor vehicles, building construction, aeronautics, mining engineering, and chemical technology.

Of the library's approximately 60,000 NetLibrary e-books, nine are on *mechanical engineering*; nine on *materials science*; 438 on *engineering* generally; and 15,589 on *computer science* generally.

Both campus libraries have expansive budgets for faculty orders of library materials.

### Faculty-Library Relations

The College of Engineering and Computing has a Library Committee with 13 members: eight faculty, two associate library directors, the engineering librarian, and the head of access services. It meets at least once a semester, more often when college-wide oversight would be useful for certain projects. For example, the Committee met often in 2008 for a journal review of the PhD program in Material Science, a journal review for Computer Science, and to compile supporting documents for the library's acquisition of the IEEE Electronic Library. In 2009 the Committee completed the review of all other print journals, converting some to online and canceling other titles that were deemed non-essential.

Engineering Library Services at the Engineering Center provides access to many dictionaries, encyclopedias, handbooks and other reference materials relevant to Mechanical and Materials Engineering. These include the current R. S. Means cost data series (in print with planned conversion to online); 2007 *Annual Book of ASTM Standards*; *Marks' Standard Handbook for Mechanical Engineers*; *Machinery's Handbook*; *CRC Handbook of Mechanical Engineering* (also available online through EngNetBase); *Handbook of Mechanical Engineering Calculations*; *Handbook of Advanced Materials*; *Dictionary of Materials Science*; *Property Tables for Thermal Fluids Engineering*; *Handbook of Materials for Medical Devices*; *Nanoelectronics and Information Technology: Advanced Electronic Materials and Novel Devices*; and *CRC Materials Science and Engineering Handbook* (also available online through EngNetBase).

Table 1: FIU online-journal counts for Engineering and Applied Sciences

- Applied Mathematics (60)
- Applied Physics (88)
- Chemical & Materials Engineering
  - Chemical Engineering (299)
  - Materials Science (130)
- Civil & Environmental Engineering
  - Civil Engineering (259)
  - Environmental Engineering (88)
  - Ocean Engineering (4)
  - Operations Research (58)
  - Transportation Engineering (68)
- Computer Science (747)
- Electrical & Computer Engineering
  - Electrical Engineering (693)
  - Information Technology (61)
  - Telecommunications (255)
- Engineering - General (167)
- Mechanical Engineering
  - Aeronautics Engineering & Astronautics (99)
  - Automotive Engineering (60)
  - Bioengineering (81)
  - Hydraulic Engineering (15)
  - Industrial & Management Engineering (279)
  - Mechanical Engineering - General (193)
  - Metallurgy & Mineralogy (120)
  - Mining Engineering (62)
  - Nuclear Engineering (34)
- Technology - General (209)

Table 2: Citation-ranked Literature of Mechanical Engineering

Citation-Ranked Titles	Impact Factor	FIU (blank = yes)	Citation Ranking of Titles Missing in FIU Collection
ADVANCES IN APPLIED MECHANICS	5.667		
PROGRESS IN ENERGY AND COMBUSTION SCIENCE	2.886		
JOURNAL OF MICROELECTROMECHANICAL SYSTEMS	1.854		
JOURNAL OF AEROSOL SCIENCE	1.605		
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART H-JOURNAL OF ENGINEERING IN MEDICINE	1.434	NO	Ranked 5 of 102 in ENGINEERING, MECHANICAL and 9 of 39 in ENGINEERING, BIOMEDICAL
AEROSOL SCIENCE AND TECHNOLOGY	1.329		
TRIBOLOGY LETTERS	1.277	NO	Ranked 7 of 102 in ENGINEERING, MECHANICAL and 15 of 123 in ENGINEERING, CHEMICAL
INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER	1.240		
INTERNATIONAL JOURNAL OF PLASTICITY	1.212		
JOURNAL OF POROUS MEDIA	1.200	NO	Ranked 10 of 102 in ENGINEERING, MECHANICAL, 5 of 36 in THERMODYNAMICS, and 39 of 170 in MATERIALS SCIENCE, MULTIDISCIPLINARY
JOURNAL OF INFORMATION STORAGE AND PROCESSING SYSTEMS	1.095	NO	Ranked 11 of 102 in ENGINEERING, MECHANICAL, 10 of 45 in COMPUTER SCIENCE, HARDWARE & ARCHITECTURE, 21 of 73 in COMPUTER SCIENCE, INFORMATION SYSTEMS, and 43 of 170 in MATERIALS SCIENCE, MULTIDISCIPLINARY
JOURNAL OF HEAT TRANSFER- TRANSACTIONS OF THE ASME	1.059		
JOURNAL OF TURBOMACHINERY- TRANSACTIONS OF THE ASME	1.028		
WEAR	0.995		
INTERNATIONAL JOURNAL OF HEAT AND FLUID FLOW	0.968		

INTERNATIONAL JOURNAL OF FATIGUE	0.957		
COMPUTER METHODS IN APPLIED MECHANICS AND ENGINEERING	0.913		
JOURNAL OF ENHANCED HEAT TRANSFER	0.906	NO	Ranked 18 of 102 in ENGINEERING, MECHANICAL and 11 of 36 in THERMODYNAMICS
INTERNATIONAL JOURNAL OF REFRIGERATION-REVUE INTERNATIONALE DU FROID	0.895		
INTERNATIONAL JOURNAL OF IMPACT ENGINEERING	0.882		
JOURNAL OF THERMOPHYSICS AND HEAT TRANSFER	0.881		
INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES	0.858		
EXPERIMENTS IN FLUIDS	0.821	NO	Ranked 23 of 102 in ENGINEERING, MECHANICAL and 31 of 94 in MECHANICS
JOURNAL OF SOUND AND VIBRATION	0.821		
ATOMIZATION AND SPRAYS	0.820	NO	Ranked 25 of 102 in ENGINEERING, MECHANICAL, 7 of 58 in ENGINEERING, MULTIDISCIPLINARY, 38 of 123 in ENGINEERING, CHEMICAL, 64 of 170 in MATERIALS SCIENCE, MULTIDISCIPLINARY, and 37 of 71 in PHYSICS, APPLIED
MECHANICAL SYSTEMS AND SIGNAL PROCESSING	0.805		
EXPERIMENTAL HEAT TRANSFER	0.780		
JOURNAL OF FLUIDS AND STRUCTURES	0.735		
ACTA MECHANICA SINICA	0.734	NO	Ranked 29 of 102 in ENGINEERING, MECHANICAL and 41 of 94 in MECHANICS
JOURNAL OF ENGINEERING MATERIALS AND TECHNOLOGY-TRANSACTIONS OF THE ASME	0.726		
JOURNAL OF ENGINEERING MECHANICS-ASCE	0.710		
IEEE-ASME TRANSACTIONS ON MECHATRONICS	0.696		

FATIGUE & FRACTURE OF ENGINEERING MATERIALS & STRUCTURES	0.693		
JOURNAL OF HYDRAULIC ENGINEERING-ASCE	0.690		
JOURNAL OF TRIBOLOGY-TRANSACTIONS OF THE ASME	0.667		
TRIBOLOGY TRANSACTIONS	0.619	NO	Ranked 36 of 102 in ENGINEERING, MECHANICAL
MATHEMATICS AND MECHANICS OF SOLIDS	0.617		
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART J- JOURNAL OF ENGINEERING TRIBOLOGY	0.611	NO	Ranked 38 of 102 in ENGINEERING, MECHANICAL
JOURNAL OF FLUIDS ENGINEERING-TRANSACTIONS OF THE ASME	0.576		
NONLINEAR DYNAMICS	0.565		
DRYING TECHNOLOGY	0.564	NO	Ranked 41 of 102 in ENGINEERING, MECHANICAL and 57 of 123 in ENGINEERING, CHEMICAL
DYNAMICS AND CONTROL	0.564	NO	Ranked 42 of 102 in ENGINEERING, MECHANICAL and 18 of 47 in AUTOMATION & CONTROL SYSTEMS,
EXPERIMENTAL THERMAL AND FLUID SCIENCE	0.560		
THEORETICAL AND APPLIED FRACTURE MECHANICS	0.531		
INTERNATIONAL JOURNAL OF MACHINE TOOLS & MANUFACTURE	0.526		
JOURNAL OF PRESSURE VESSEL TECHNOLOGY-TRANSACTIONS OF THE ASME	0.518		
JOURNAL OF VIBRATION AND ACOUSTICS-TRANSACTIONS OF THE ASME	0.514		
PROBABILISTIC ENGINEERING MECHANICS	0.514		
JOURNAL OF SOLAR ENERGY ENGINEERING-TRANSACTIONS OF THE ASME	0.508		
JOURNAL OF STRAIN ANALYSIS FOR ENGINEERING DESIGN	0.494		
TRIBOLOGY INTERNATIONAL	0.494		
JOURNAL OF MECHANICAL DESIGN	0.486		

HVAC&R RESEARCH	0.477	aggregator	
APPLIED THERMAL ENGINEERING	0.476		
JOURNAL OF ELECTRONIC PACKAGING	0.470		
ENGINEERING WITH COMPUTERS	0.451		
JSME INTERNATIONAL JOURNAL SERIES A-SOLID MECHANICS AND MATERIAL ENGINEERING	0.449	NO	Ranked 57 of 102 in ENGINEERING, MECHANICAL and 107 of 170 in MATERIALS SCIENCE, MULTIDISCIPLINARY
INTERNATIONAL JOURNAL OF THERMAL SCIENCES	0.436		
MACHINING SCIENCE AND TECHNOLOGY	0.436	NO	Ranked 59 of 102 in ENGINEERING, MECHANICAL, 10 of 35 in ENGINEERING, MANUFACTURING, and 109 of 170 in MATERIALS SCIENCE, MULTIDISCIPLINARY
ENGINEERING COMPUTATIONS	0.434		
LUBRICATION ENGINEERING	0.418	NO	Ranked 61 of 102 in ENGINEERING, MECHANICAL
EXPERIMENTAL TECHNIQUES	0.371		
VEHICLE SYSTEM DYNAMICS	0.364	NO	Ranked 63 of 102 in ENGINEERING, MECHANICAL
JOURNAL OF MANUFACTURING SCIENCE AND ENGINEERING-TRANSACTIONS OF THE ASME	0.356		
JOURNAL OF VIBRATION AND CONTROL	0.343		
MECHATRONICS	0.337		
JSME INTERNATIONAL JOURNAL SERIES B-FLUIDS AND THERMAL ENGINEERING	0.326	NO	Ranked 67 of 102 in ENGINEERING, MECHANICAL and 33 of 36 in THERMODYNAMICS
MECHANISM AND MACHINE THEORY	0.326		
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE	0.326	NO	Ranked 63 of 102 in ENGINEERING, MECHANICAL
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART B-JOURNAL OF ENGINEERING MANUFACTURE	0.295	NO	Ranked 70 of 102 in ENGINEERING, MECHANICAL and 18 of 35 in ENGINEERING, MANUFACTURING

JOURNAL OF ENGINEERING FOR GAS TURBINES AND POWER-TRANSACTIONS OF THE ASME	0.278	NO	Ranked 71 of 102 in ENGINEERING, MECHANICAL
FLOW MEASUREMENT AND INSTRUMENTATION	0.267		
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART F-JOURNAL OF RAIL AND RAPID TRANSIT	0.262	NO	Ranked 73 of 102 in ENGINEERING, MECHANICAL, 37 of 63 in ENGINEERING, CIVIL, and 7 of 17 in TRANSPORTATION SCIENCE & TECHNOLOGY
INTERNATIONAL JOURNAL OF PRESSURE VESSELS AND PIPING	0.250		
KSME INTERNATIONAL JOURNAL	0.249	NO	Ranked 75 of 102 in ENGINEERING, MECHANICAL
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART A-JOURNAL OF POWER AND ENERGY	0.232	NO	Ranked 76 of 102 in ENGINEERING, MECHANICAL
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART D-JOURNAL OF AUTOMOBILE ENGINEERING	0.232	NO	Ranked 76 of 102 in ENGINEERING, MECHANICAL and 8 of 17 in TRANSPORTATION SCIENCE & TECHNOLOGY
SOUND AND VIBRATION	0.226		
JOURNAL OF OFFSHORE MECHANICS AND ARCTIC ENGINEERING-TRANSACTIONS OF THE ASME	0.221		
CHINA OCEAN ENGINEERING	0.206	NO	Ranked 80 of 102 in ENGINEERING, MECHANICAL, 46 of 63 in ENGINEERING, CIVIL, 44 of 50 in WATER RESOURCES, and 10 of 14 in ENGINEERING, OCEAN
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART E-JOURNAL OF PROCESS MECHANICAL ENGINEERING	0.191	NO	Ranked 81 of 102 in ENGINEERING, MECHANICAL
INTERNATIONAL JOURNAL OF VEHICLE DESIGN	0.190	NO	Ranked 82 of 102 in ENGINEERING, MECHANICAL and 10 of 19 in TRANSPORTATION SCIENCE & TECHNOLOGY

JSME INTERNATIONAL JOURNAL SERIES C-MECHANICAL SYSTEMS MACHINE ELEMENTS AND MANUFACTURING	0.177	NO	Ranked 83 of 102 in ENGINEERING, MECHANICAL and 29 of 35 in ENGINEERING, MANUFACTURING
TRANSACTIONS OF THE CANADIAN SOCIETY FOR MECHANICAL ENGINEERING	0.164	NO	Ranked 84 of 102 in ENGINEERING, MECHANICAL
STRUCTURAL ENGINEERING AND MECHANICS	0.162	NO	Ranked 85 of 102 in ENGINEERING, MECHANICAL and 49 of 63 in ENGINEERING, CIVIL
INDUSTRIAL LUBRICATION AND TRIBOLOGY	0.152	NO	
ENGINEERING FAILURE ANALYSIS	0.121		
INTERNATIONAL JOURNAL OF THE JAPAN SOCIETY FOR PRECISION ENGINEERING	0.120	NO	Ranked 88 of 102 in ENGINEERING, MECHANICAL
SHOCK AND VIBRATION	0.119	NO	Ranked 89 of 102 in ENGINEERING, MECHANICAL, 25 of 27 in ACOUSTICS, and 92 of 94 in MECHANICS
MECHANICAL ENGINEERING	0.109		
ASHRAE JOURNAL	0.095		
FORSCHUNG IM INGENIEURWESEN- ENGINEERING RESEARCH	0.091	NO	Ranked 92 of 102 in ENGINEERING, MECHANICAL and 51 of 58 in ENGINEERING, MULTIDISCIPLINARY,
STROJARSTVO	0.059	NO	Ranked 93 of 102 in ENGINEERING, MECHANICAL
STROJNISKI VESTNIK-JOURNAL OF MECHANICAL ENGINEERING	0.049	NO	Ranked 94 of 102 in ENGINEERING, MECHANICAL
HEAVY VEHICLE SYSTEMS- INTERNATIONAL JOURNAL OF VEHICLE DESIGN	0.045	NO	Ranked 95 of 102 in ENGINEERING, MECHANICAL and 14 of 17in TRANSPORTATION SCIENCE & TECHNOLOGY
JOURNAL OF JAPANESE SOCIETY OF TRIBOLOGISTS	0.038	NO	Ranked 96 of 102 in ENGINEERING, MECHANICAL
HYDRAULICS & PNEUMATICS	0.037	aggregator	
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART G-JOURNAL OF AEROSPACE ENGINEERING	0.033	NO	Ranked 98 of 102 in ENGINEERING, MECHANICAL and 23 of 26 in ENGINEERING, AEROSPACE,

BRENNSTOFF-WARME-KRAFT	0.032	NO	Ranked 99 of 102 in ENGINEERING, MECHANICAL, 36 of 36 in THERMODYNAMICS, and 58 of 66 in ENERGY & FUELS,
PROFESSIONAL ENGINEERING	0.031	aggregator	
TURBOMACHINERY INTERNATIONAL	0.014	NO	Ranked 101 of 102 in ENGINEERING, MECHANICAL
DIESEL PROGRESS NORTH AMERICAN EDITION	0.003	aggregator	
FIU has 61 (60%) of the 102 titles.			
In 2003 FIU had 39 (38%) of the 102 titles. Of the 22 added titles, 18 are subscriptions and four are in aggregator databases with current coverage.			

Table 3: Citation-ranked Literature of Materials Science, Multi-disciplinary

TITLE	IMPACT FACTOR	FIU HOLDINGS (blank = YES)
PROGRESS IN MATERIALS SCIENCE	12.000	
NATURE MATERIALS	10.778	
MATERIALS SCIENCE & ENGINEERING R-REPORTS	10.032	
ADVANCED MATERIALS	7.305	
NANO LETTERS	6.144	
ANNUAL REVIEW OF MATERIALS RESEARCH	5.333	
ADVANCED FUNCTIONAL MATERIALS	4.798	
MRS INTERNET JOURNAL OF NITRIDE SEMICONDUCTOR RESEARCH	4.565	
CRITICAL REVIEWS IN SOLID STATE AND MATERIALS SCIENCES	4.444	NO
CHEMISTRY OF MATERIALS	4.374	
MRS BULLETIN	3.586	NO
CARBON	3.120	
ACTA MATERIALIA	3.059	
JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS	2.885	
INTERNATIONAL JOURNAL OF PLASTICITY	2.768	
CRYSTAL GROWTH & DESIGN	2.742	
ELECTROCHEMICAL AND SOLID STATE LETTERS	2.742	
MICROPOROUS AND MESOPOROUS MATERIALS	2.701	
JOURNAL OF MATERIALS CHEMISTRY	2.659	NO
CURRENT OPINION IN SOLID STATE & MATERIALS SCIENCE	2.640	
INTERNATIONAL MATERIALS REVIEWS	2.478	NO
EUROPEAN PHYSICAL JOURNAL E	2.445	NO
NANOTECHNOLOGY	2.304	
IEEE TRANSACTIONS ON NANOTECHNOLOGY	2.088	
JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY	1.987	NO
GOLD BULLETIN	1.885	open access
DIAMOND AND RELATED MATERIALS	1.867	
JOURNAL OF MICROMECHANICS AND MICROENGINEERING	1.699	
PHYSICS AND CHEMISTRY OF MINERALS	1.671	NO
JOURNAL OF MATERIALS RESEARCH	1.635	
SCRIPTA MATERIALIA	1.633	
OPTICAL MATERIALS	1.623	
INTERMETALLICS	1.619	NO
SEMICONDUCTOR SCIENCE AND TECHNOLOGY	1.603	
THIN SOLID FILMS	1.598	
SMART MATERIALS & STRUCTURES	1.591	
JOURNAL OF NON-CRYSTALLINE SOLIDS	1.563	
JOURNAL OF ELECTRONIC MATERIALS	1.457	

FULLERENES NANOTUBES AND CARBON NANOSTRUCTURES	1.433	NO
MECHANICS OF MATERIALS	1.422	
PHILOSOPHICAL MAGAZINE B-PHYSICS OF CONDENSED MATTER STATISTICAL MECHANICS ELECTRONIC OPTICAL AND MAGNETIC PROPERTIES	1.413	NO
PHILOSOPHICAL MAGAZINE A-PHYSICS OF CONDENSED MATTER STRUCTURE DEFECTS AND MECHANICAL PROPERTIES	1.409	
MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	1.365	
NEW DIAMOND AND FRONTIER CARBON TECHNOLOGY	1.361	NO
JOURNAL OF NANOPARTICLE RESEARCH	1.333	
CORROSION SCIENCE	1.319	
SYNTHETIC METALS	1.303	
METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE	1.285	
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING	1.220	NO
INTERNATIONAL JOURNAL OF INORGANIC MATERIALS	1.198	
SOLAR ENERGY MATERIALS AND SOLAR CELLS	1.188	
MATERIALS CHEMISTRY AND PHYSICS	1.183	
JOURNAL OF NUCLEAR MATERIALS	1.179	
MACROMOLECULAR MATERIALS AND ENGINEERING	1.170	NO
MATERIALS TRANSACTIONS	1.159	open access
MATERIALS RESEARCH BULLETIN	1.144	
JOURNAL OF NEW MATERIALS FOR ELECTROCHEMICAL SYSTEMS	1.140	NO
GRANULAR MATTER	1.135	NO
MATERIALS SCIENCE & ENGINEERING C-BIOMIMETIC AND SUPRAMOLECULAR SYSTEMS	1.122	
JOURNAL OF ALLOYS AND COMPOUNDS	1.080	
IEEE TRANSACTIONS ON ADVANCED PACKAGING	1.070	
MATERIALS SCIENCE AND ENGINEERING B-SOLID STATE MATERIALS FOR ADVANCED TECHNOLOGY	1.070	
JOURNAL OF POROUS MATERIALS	1.062	NO
MODELLING AND SIMULATION IN MATERIALS SCIENCE AND ENGINEERING	1.046	
WEAR	1.046	
INTERNATIONAL JOURNAL OF FATIGUE	1.014	
INTERFACE SCIENCE	1.014	NO
COMPUTATIONAL MATERIALS SCIENCE	1.003	
ADVANCED ENGINEERING MATERIALS	1.000	
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS	0.996	NO
MATERIALS RESEARCH INNOVATIONS	0.993	NO
CRYSTAL ENGINEERING	0.974	
FULLERENE SCIENCE AND TECHNOLOGY	0.918	NO
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS	0.910	
GEOSYNTHETICS INTERNATIONAL	0.889	NO

INTERNATIONAL JOURNAL OF ADHESION AND ADHESIVES	0.853	NO
JOM-JOURNAL OF THE MINERALS METALS & MATERIALS SOCIETY	0.852	
JOURNAL OF ENGINEERING MATERIALS AND TECHNOLOGY-TRANSACTIONS OF THE ASME	0.843	
RAPID PROTOTYPING JOURNAL	0.836	
JOURNAL OF MATERIALS SCIENCE	0.826	
JOURNAL OF ADHESION SCIENCE AND TECHNOLOGY	0.822	NO
JOURNAL OF COMPUTER-AIDED MATERIALS DESIGN	0.821	NO
METALLURGICAL AND MATERIALS TRANSACTIONS B-PROCESS METALLURGY AND MATERIALS PROCESSING SCIENCE	0.811	NO
IEEE TRANSACTIONS ON COMPONENTS AND PACKAGING TECHNOLOGIES	0.790	
CORROSION	0.774	
JOURNAL OF INFORMATION STORAGE AND PROCESSING SYSTEMS	0.774	
MATERIALS LETTERS	0.774	
JOURNAL OF POROUS MEDIA	0.769	NO
SENSORS AND MATERIALS	0.738	NO
MICROSYSTEM TECHNOLOGIES-MICRO-AND NANOSYSTEMS-INFORMATION STORAGE AND PROCESSING SYSTEMS	0.707	
FATIGUE & FRACTURE OF ENGINEERING MATERIALS & STRUCTURES	0.706	
MECHANICS OF COMPOSITE MATERIALS AND STRUCTURES	0.700	NO
MATERIALS SCIENCE AND TECHNOLOGY	0.688	NO
SOLID STATE PHENOMENA	0.687	NO
CEMENT AND CONCRETE RESEARCH	0.641	
SOLDERING & SURFACE MOUNT TECHNOLOGY	0.639	
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS	0.635	
JOURNAL OF INTELLIGENT MATERIAL SYSTEMS AND STRUCTURES	0.615	
ACI MATERIALS JOURNAL	0.614	NO
MATHEMATICS AND MECHANICS OF SOLIDS	0.612	
VACUUM	0.612	
FIRE SAFETY JOURNAL	0.610	
MATERIALS SCIENCE FORUM	0.602	NO
INTERNATIONAL JOURNAL FOR NUMERICAL AND ANALYTICAL METHODS IN GEOMECHANICS	0.594	
SURFACE REVIEW AND LETTERS	0.586	NO
JOURNAL OF ADHESION	0.582	NO
KOVOVE MATERIALY-METALLIC MATERIALS	0.563	NO
JOURNAL OF PHASE EQUILIBRIA	0.559	NO
MOLECULAR MATERIALS	0.545	NO
BULLETIN OF MATERIALS SCIENCE	0.529	open access
MATERIALS & DESIGN	0.527	
MATERIALS AT HIGH TEMPERATURES	0.518	NO
SCIENCE AND TECHNOLOGY OF WELDING AND JOINING	0.513	NO

INTERNATIONAL JOURNAL OF REFRACTORY METALS & HARD MATERIALS	0.509	
INTERNATIONAL JOURNAL OF DAMAGE MECHANICS	0.486	
SAMPE JOURNAL	0.483	NO
ACI STRUCTURAL JOURNAL	0.473	NO
JOURNAL OF MATERIALS SCIENCE LETTERS	0.470	
JOURNAL OF ELASTICITY	0.466	NO
BRITISH CORROSION JOURNAL	0.457	NO
JOURNAL OF MATERIALS PROCESSING TECHNOLOGY	0.450	
JOURNAL OF UNIVERSITY OF SCIENCE AND TECHNOLOGY BEIJING	0.437	NO
ADVANCES IN CEMENT RESEARCH	0.432	NO
JOURNAL OF FIRE SCIENCES	0.426	
DEFECT AND DIFFUSION FORUM	0.410	NO
FERROELECTRICS	0.406	NO
MICRO	0.400	NO
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING	0.394	
ACTA MECHANICA SOLIDA SINICA	0.389	NO
ANNALES DE CHIMIE-SCIENCE DES MATERIAUX	0.359	
INORGANIC MATERIALS	0.356	NO
JOURNAL OF WUHAN UNIVERSITY OF TECHNOLOGY-MATERIALS SCIENCE EDITION	0.356	NO
MATERIALS AND CORROSION-WERKSTOFFE UND KORROSION	0.355	NO
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