

Mark A Baker

List of Publications by Year in descending order

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140
papers

5,599
citations

61984

43
h-index

88630

70
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143
all docs

143
docs citations

143
times ranked

6112
citing authors

#	ARTICLE	IF	CITATIONS
1	Ni/CNT/Zeolite-Y composite catalyst for efficient heptane hydrocracking: Steady-state and transient kinetic studies. <i>Applied Catalysis A: General</i> , 2022, 630, 118437.	4.3	6
2	A comparative study of Ni catalysts supported on Al ₂ O ₃ , MgO@CaO@Al ₂ O ₃ and La ₂ O ₃ @Al ₂ O ₃ for the dry reforming of ethane. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 5337-5353.	7.1	26
3	Ion-driven nanograin formation in early-stage degradation of tri-cation perovskite films. <i>Nanoscale</i> , 2022, 14, 2605-2616.	5.6	6
4	Hydrogen production via steam reforming of glycerol over Ce-La-Cu-O ternary oxide catalyst: An experimental and DFT study. <i>Applied Surface Science</i> , 2022, 586, 152798.	6.1	16
5	Oxidative coupling of methane on Li/CeO ₂ based catalysts: Investigation of the effect of Mg- and La-doping of the CeO ₂ support. <i>Molecular Catalysis</i> , 2022, 520, 112157.	2.0	9
6	Optimizing the oxide support composition in Pr-doped CeO ₂ towards highly active and selective Ni-based CO ₂ methanation catalysts. <i>Journal of Energy Chemistry</i> , 2022, 71, 547-561.	12.9	36
7	Quantitative atomic force microscopy: A statistical treatment of high-speed AFM data for quality control applications. <i>Ultramicroscopy</i> , 2022, 239, 113546.	1.9	3
8	Towards maximizing conversion of ethane and carbon dioxide into synthesis gas using highly stable Ni-perovskite catalysts. <i>Journal of CO₂ Utilization</i> , 2022, 61, 102046.	6.8	14
9	Decoupling the Chemical and Mechanical Strain Effect on Steering the CO ₂ Activation over CeO ₂ -Based Oxides: An Experimental and DFT Approach. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 33094-33119.	8.0	17
10	DNA variants are an unlikely explanation for the changing quality of spermatozoa within the same individual. <i>Human Fertility</i> , 2021, 24, 376-388.	1.7	0
11	Highly selective and stable nickel catalysts supported on ceria promoted with Sm ₂ O ₃ , Pr ₂ O ₃ and MgO for the CO ₂ methanation reaction. <i>Applied Catalysis B: Environmental</i> , 2021, 282, 119562.	20.2	149
12	Effect of Pt nanoparticle decoration on the H ₂ storage performance of plasma-derived nanoporous graphene. <i>Carbon</i> , 2021, 171, 294-305.	10.3	27
13	Continuous selective deoxygenation of palm oil for renewable diesel production over Ni catalysts supported on Al ₂ O ₃ and La ₂ O ₃ @Al ₂ O ₃ . <i>RSC Advances</i> , 2021, 11, 8569-8584.	3.6	21
14	Design Aspects of Doped CeO ₂ for Low-Temperature Catalytic CO Oxidation: Transient Kinetics and DFT Approach. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 22391-22415.	8.0	70
15	Establishing and maintaining fertility: the importance of cell cycle arrest. <i>Genes and Development</i> , 2021, 35, 619-634.	5.9	12
16	Growth anomalies in CVD silicon carbide monofilaments for metal matrix composites. <i>Materialia</i> , 2021, 16, 101087.	2.7	2
17	Thin film cadmium telluride solar cells on ultra-thin glass in low earth orbit—3 years of performance data on the AlSat-1 N CubeSat mission. <i>Progress in Photovoltaics: Research and Applications</i> , 2021, 29, 1000-1007.	8.1	9
18	Ni ₂ P Nanoparticles Embedded in Mesoporous SiO ₂ for Catalytic Hydrogenation of SO ₂ to Elemental S. <i>ACS Applied Nano Materials</i> , 2021, 4, 5665-5676.	5.0	14

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19	Nickel Phosphide Nanoparticles for Selective Hydrogenation of SO ₂ to H ₂ S. ACS Applied Nano Materials, 2021, 4, 6568-6582.	5.0	11
20	The Effect of Cracking of Thermally Grown Oxide Layers in Thermal Barrier Coatings Examined Using FIB Tomography and Inverse Modelling. Oxidation of Metals, 2021, 96, 157-168.	2.1	5
21	Highly selective and stable Ni/La-M (M=Sm, Pr, and Mg)-CeO ₂ catalysts for CO ₂ methanation. Journal of CO ₂ Utilization, 2021, 51, 101618.	6.8	78
22	Metal-Free Phosphated Mesoporous SiO ₂ as Catalyst for the Low-Temperature Conversion of SO ₂ to H ₂ S in Hydrogen. Nanomaterials, 2021, 11, 2440.	4.1	1
23	Ni/Y ₂ O ₃ –ZrO ₂ catalyst for hydrogen production through the glycerol steam reforming reaction. International Journal of Hydrogen Energy, 2020, 45, 10442-10460.	7.1	85
24	Morphology-dependent electrochemical performance of MnO ₂ nanostructures on graphene towards efficient capacitive deionization. Electrochimica Acta, 2020, 330, 135202.	5.2	55
25	Deposition and characterization of a sol-gel Mg-substituted fluorapatite coating with new stoichiometries. Applied Surface Science, 2020, 505, 144393.	6.1	8
26	Cu-Ce-La-Ox as efficient CO oxidation catalysts: Effect of Cu content. Applied Surface Science, 2020, 505, 144474.	6.1	39
27	Promoting effect of CaO-MgO mixed oxide on Ni/Al ₂ O ₃ catalyst for selective catalytic deoxygenation of palm oil. Renewable Energy, 2020, 162, 1793-1810.	8.9	47
28	Structure–Activity Relationships of Daptomycin Lipopeptides. Journal of Medicinal Chemistry, 2020, 63, 13266-13290.	6.4	30
29	Nanostructural Characterisation and Optical Properties of Sputter-Deposited Thick Indium Tin Oxide (ITO) Coatings. Coatings, 2020, 10, 1127.	2.6	7
30	Effect of operating parameters on the selective catalytic deoxygenation of palm oil to produce renewable diesel over Ni supported on Al ₂ O ₃ , ZrO ₂ and SiO ₂ catalysts. Fuel Processing Technology, 2020, 209, 106547.	7.2	65
31	Extending XPS Surface Analysis with Correlative Spectroscopy and Microscopy. Microscopy and Microanalysis, 2020, 26, 1016-1016.	0.4	0
32	Sialylation of Asparagine 612 Inhibits Aconitase Activity during Mouse Sperm Capacitation; a Possible Mechanism for the Switch from Oxidative Phosphorylation to Glycolysis. Molecular and Cellular Proteomics, 2020, 19, 1860-1875.	3.8	4
33	Cu, Sm co-doping effect on the CO oxidation activity of CeO ₂ . A combined experimental and density functional study. Applied Surface Science, 2020, 521, 146305.	6.1	61
34	Proteomic Analysis Reveals that Topoisomerase 2A is Associated with Defective Sperm Head Morphology. Molecular and Cellular Proteomics, 2020, 19, 444-455.	3.8	13
35	Investigating the correlation between deactivation and the carbon deposited on the surface of Ni/Al ₂ O ₃ and Ni/La ₂ O ₃ -Al ₂ O ₃ catalysts during the biogas reforming reaction. Applied Surface Science, 2019, 474, 42-56.	6.1	128
36	The Relationship between Reaction Temperature and Carbon Deposition on Nickel Catalysts Based on Al ₂ O ₃ , ZrO ₂ or SiO ₂ Supports during the Biogas Dry Reforming Reaction. Catalysts, 2019, 9, 676.	3.5	72

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37	Ni Catalysts Based on Attapulgite for Hydrogen Production through the Glycerol Steam Reforming Reaction. <i>Catalysts</i> , 2019, 9, 650.	3.5	23
38	Nanostructured Fe-Ni Sulfide: A Multifunctional Material for Energy Generation and Storage. <i>Catalysts</i> , 2019, 9, 597.	3.5	21
39	Highly Stretchable, Directionally Oriented Carbon Nanotube/PDMS Conductive Films with Enhanced Sensitivity as Wearable Strain Sensors. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 39560-39573.	8.0	75
40	Ce ³⁺ /Cu cost-efficient catalysts for H ₂ production through the glycerol steam reforming reaction. <i>Sustainable Energy and Fuels</i> , 2019, 3, 673-691.	4.9	34
41	Nickel Supported on AlCeO ₃ as a Highly Selective and Stable Catalyst for Hydrogen Production via the Glycerol Steam Reforming Reaction. <i>Catalysts</i> , 2019, 9, 411.	3.5	39
42	Oxidation of a depleted uranium ⁵ wt% molybdenum (U ⁵ Mo) alloy in UHV by AES and XPS. <i>Surface and Interface Analysis</i> , 2019, 51, 849-856.	1.8	6
43	Carbon nanotube micro-contactors on ohmic substrates for on-chip microelectromechanical probing applications at wafer level. <i>Carbon</i> , 2019, 150, 117-127.	10.3	5
44	Electrodeposited Nanostructured CoFe ₂ O ₄ for Overall Water Splitting and Supercapacitor Applications. <i>Catalysts</i> , 2019, 9, 176.	3.5	65
45	Contemporary Anti-Ebola Drug Discovery Approaches and Platforms. <i>ACS Infectious Diseases</i> , 2019, 5, 35-48.	3.8	3
46	Ni supported on CaO-MgO-Al ₂ O ₃ as a highly selective and stable catalyst for H ₂ production via the glycerol steam reforming reaction. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 256-273.	7.1	138
47	The influence of SiO ₂ doping on the Ni/ZrO ₂ supported catalyst for hydrogen production through the glycerol steam reforming reaction. <i>Catalysis Today</i> , 2019, 319, 206-219.	4.4	67
48	Proteomic Profiling of Human Uterine Fibroids Reveals Upregulation of the Extracellular Matrix Protein Periostin. <i>Endocrinology</i> , 2018, 159, 1106-1118.	2.8	17
49	Sputum Active Polymyxin Lipopeptides: Activity against Cystic Fibrosis <i>Pseudomonas aeruginosa</i> Isolates and Their Interactions with Sputum Biomolecules. <i>ACS Infectious Diseases</i> , 2018, 4, 646-655.	3.8	19
50	Development and characterisation of zinc oxalate conversion coatings on zinc. <i>Corrosion Science</i> , 2018, 137, 13-32.	6.6	21
51	Comparison of the surfaces and interfaces formed for sputter and electroless deposited gold contacts on CdZnTe. <i>Applied Surface Science</i> , 2018, 427, 1257-1270.	6.1	16
52	Official Call: 2018 Annual Business Meeting of the American Osteopathic Association. <i>Journal of Osteopathic Medicine</i> , 2018, 118, 433-433.	0.8	0
53	The Effect of Ni Addition onto a Cu-Based Ternary Support on the H ₂ Production over Glycerol Steam Reforming Reaction. <i>Nanomaterials</i> , 2018, 8, 931.	4.1	24
54	Tuning the activity of Cu-containing rare earth oxide catalysts for CO oxidation reaction: Cooling while heating paradigm in microwave-assisted synthesis. <i>Materials Research Bulletin</i> , 2018, 108, 142-150.	5.2	25

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55	An in depth investigation of deactivation through carbon formation during the biogas dry reforming reaction for Ni supported on modified with CeO ₂ and La ₂ O ₃ zirconia catalysts. International Journal of Hydrogen Energy, 2018, 43, 18955-18976.	7.1	165
56	Needle grass array of nanostructured nickel cobalt sulfide electrode for clean energy generation. Surface and Coatings Technology, 2018, 354, 306-312.	4.8	26
57	A Comparative Study of Outer Membrane Proteome between Paired Colistin-Susceptible and Extremely Colistin-Resistant <i>Klebsiella pneumoniae</i> Strains. ACS Infectious Diseases, 2018, 4, 1692-1704.	3.8	15
58	The flagellar protein Enkurin is required for mouse sperm motility and for transport through the female reproductive tract. Biology of Reproduction, 2018, 99, 789-797.	2.7	17
59	Modeling of Heat Transfer in an Aluminum X-Ray Anode Employing a Chemical Vapor Deposited Diamond Heat Spreader. Journal of Heat Transfer, 2018, 140, .	2.1	5
60	XPS investigation of monatomic and cluster argon ion sputtering of tantalum pentoxide. Applied Surface Science, 2017, 405, 79-87.	6.1	191
61	A robust inverse analysis method to estimate the local tensile properties of heterogeneous materials from nano-indentation data. International Journal of Mechanical Sciences, 2017, 123, 162-176.	6.7	36
62	Dicarboxylic acids analysed by x-ray photoelectron spectroscopy, Part IV - hexanedioic acid anhydrous. Surface Science Spectra, 2017, 24, 011104.	1.3	4
63	Rapid microwave assisted sol-gel synthesis of CeO ₂ and CexSm1-xO ₂ nanoparticle catalysts for CO oxidation. Molecular Catalysis, 2017, 428, 41-55.	2.0	62
64	From Breast Cancer to Antimicrobial: Combating Extremely Resistant Gram-Negative "Superbugs" Using Novel Combinations of Polymyxin B with Selective Estrogen Receptor Modulators. Microbial Drug Resistance, 2017, 23, 640-650.	2.0	45
65	Performance comparison of small-pixel CdZnTe radiation detectors with gold contacts formed by sputter and electroless deposition. Journal of Instrumentation, 2017, 12, P06015-P06015.	1.2	8
66	Nanoporous activated carbon cloth as a versatile material for hydrogen adsorption, selective gas separation and electrochemical energy storage. Nano Energy, 2017, 40, 49-64.	16.0	101
67	Proton irradiation of CdTe thin film photovoltaics deposited on cerium-doped space glass. Progress in Photovoltaics: Research and Applications, 2017, 25, 1059-1067.	8.1	21
68	Dicarboxylic acids analyzed by time-of-flight secondary ions mass spectrometry. Part II: Butanedioic acid. Surface Science Spectra, 2017, 24, 021403.	1.3	0
69	Investigating the Interaction of Octapeptin A3 with Model Bacterial Membranes. ACS Infectious Diseases, 2017, 3, 606-619.	3.8	25
70	Introduction to a series of dicarboxylic acids analyzed by x-ray photoelectron spectroscopy. Surface Science Spectra, 2017, 24, .	1.3	11
71	Dicarboxylic acids analysed by x-ray photoelectron spectroscopy, Part I - propanedioic acid anhydrous. Surface Science Spectra, 2017, 24, .	1.3	3
72	Dicarboxylic acids analysed by x-ray photoelectron spectroscopy, Part II - butanedioic acid anhydrous. Surface Science Spectra, 2017, 24, .	1.3	5

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73	Dicarboxylic acids analysed by x-ray photoelectron spectroscopy, Part III - pentanedioic acid anhydrous. Surface Science Spectra, 2017, 24, 011103.	1.3	3
74	Dicarboxylic acids analysed by x-ray photoelectron spectroscopy, Part V - heptanedioic acid anhydrous. Surface Science Spectra, 2017, 24, 011105.	1.3	5
75	Dicarboxylic acids analysed by x-ray photoelectron spectroscopy, Part VI - octanedioic acid anhydrous. Surface Science Spectra, 2017, 24, 011106.	1.3	4
76	Dicarboxylic acids analyzed by time-of-flight secondary ion mass spectrometry (Introduction to parts I-VI). Surface Science Spectra, 2017, 24, 021400.	1.3	0
77	Dicarboxylic acids analyzed by time-of-flight secondary ion mass spectrometry. Part 0: Ethanedioic acid. Surface Science Spectra, 2017, 24, 021401.	1.3	0
78	Dicarboxylic acids analyzed by time-of-flight secondary ions mass spectrometry. Part I: Propanedioic acid. Surface Science Spectra, 2017, 24, 021402.	1.3	0
79	Dicarboxylic acids analyzed by time-of-flight secondary ions mass spectrometry. Part III: Pentanedioic acid. Surface Science Spectra, 2017, 24, 021404.	1.3	0
80	Dicarboxylic acids analyzed by time-of-flight secondary ions mass spectrometry. Part IV: Hexanedioic acid. Surface Science Spectra, 2017, 24, 021405.	1.3	0
81	Dicarboxylic acids analyzed by time-of-flight secondary ions mass spectrometry. Part V: Heptanedioic acid. Surface Science Spectra, 2017, 24, 021406.	1.3	0
82	Dicarboxylic acids analyzed by time-of-flight secondary ions mass spectrometry. Part VI: Oxanedioic acid. Surface Science Spectra, 2017, 24, 021407.	1.3	0
83	N-Doped TiO ₂ -Coated Ceramic Membrane for Carbamazepine Degradation in Different Water Qualities. Nanomaterials, 2017, 7, 206.	4.1	32
84	Quantitative Glycopeptide Changes in Rat Sperm During Epididymal Transit. Biology of Reproduction, 2016, 94, 91.	2.7	9
85	Synthesis and properties of 1D Sm-doped CeO ₂ composite nanofibers fabricated using a coupled electrospinning and sol-gel methodology. Ceramics International, 2016, 42, 10734-10744.	4.8	20
86	The Plasma Protein Binding Proteome of Ertapenem: A Novel Compound-Centric Proteomic Approach for Elucidating Drug-Plasma Protein Binding Interactions. ACS Chemical Biology, 2016, 11, 3353-3364.	3.4	7
87	An Unlikely Pair: The Antimicrobial Synergy of Polymyxin B in Combination with the Cystic Fibrosis Transmembrane Conductance Regulator Drugs KALYDECO and ORKAMBI. ACS Infectious Diseases, 2016, 2, 478-488.	3.8	80
88	Carbamazepine degradation using a N-doped TiO ₂ coated photocatalytic membrane reactor: Influence of physical parameters. Journal of Hazardous Materials, 2016, 310, 98-107.	12.4	115
89	Characterization of MOCVD Thin-Film CdTe Photovoltaics on Space-Qualified Cover Glass. IEEE Journal of Photovoltaics, 2016, 6, 557-561.	2.5	11
90	Molecular Characterisation of the Haemagglutinin Glycan-Binding Specificity of Egg-Adapted Vaccine Strains of the Pandemic 2009 H1N1 Swine Influenza A Virus. Molecules, 2015, 20, 10415-10434.	3.8	6

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91	Lightweight and low-cost thin film photovoltaics for large area extra-terrestrial applications. IET Renewable Power Generation, 2015, 9, 420-423.	3.1	6
92	Characterization of the metal-semiconductor interface of gold contacts on CdZnTe formed by electroless deposition. Journal Physics D: Applied Physics, 2015, 48, 275304.	2.8	21
93	Surface characterisation and photocatalytic performance of N-doped TiO ₂ thin films deposited onto 200Ånm pore size alumina membranes by sol-gel methods. Materials Chemistry and Physics, 2015, 159, 25-37.	4.0	19
94	Proteomic Characterization of Pig Sperm Anterior Head Plasma Membrane Reveals Roles of Acrosomal Proteins in ZP3 Binding. Journal of Cellular Physiology, 2015, 230, 449-463.	4.1	32
95	Comparison of Ar ⁺ Monoatomic and Cluster Ion Sputtering of Ta ₂ O ₅ at Different Ion Energies, by XPS: Part 2 - Cluster Ions. Surface Science Spectra, 2014, 21, 68-83.	1.3	15
96	Comparison of Ar ⁺ Monoatomic and Cluster Ion Sputtering of Ta ₂ O ₅ at Different Ion Energies, by XPS: Part 1 - Monoatomic Ions. Surface Science Spectra, 2014, 21, 50-67.	1.3	15
97	The importance of mammalian germ cell maturation provides novel insights for importin biology. FASEB Journal, 2014, 28, 3480-3493.	0.5	24
98	Effect of total gas pressure and O ₂ /N ₂ flow rate on the nanostructure of N-doped TiO ₂ thin films deposited by reactive sputtering. Thin Solid Films, 2014, 552, 10-17.	1.8	17
99	Impact of water quality on removal of carbamazepine in natural waters by N-doped TiO ₂ photo-catalytic thin film surfaces. Journal of Hazardous Materials, 2013, 244-245, 463-471.	12.4	67
100	Head and flagella subcompartmental proteomic analysis of human spermatozoa. Proteomics, 2013, 13, 61-74.	2.2	115
101	An XPS study of bromine in methanol etching and hydrogen peroxide passivation treatments for cadmium zinc telluride radiation detectors. Applied Surface Science, 2013, 264, 681-686.	6.1	27
102	Phosphoproteomic Analysis of Peptides. Methods in Molecular Biology, 2013, 1069, 271-277.	0.9	0
103	Proteomic insights into the maturation and capacitation of mammalian spermatozoa. Systems Biology in Reproductive Medicine, 2012, 58, 211-217.	2.1	80
104	Analysis of Phosphopeptide Changes as Spermatozoa Acquire Functional Competence in the Epididymis Demonstrates Changes in the Post-translational Modification of Izumo1. Journal of Proteome Research, 2012, 11, 5252-5264.	3.7	38
105	Visible Light Water Splitting via Oxidized TiN Thin Films. Journal of Physical Chemistry C, 2012, 116, 15855-15866.	3.1	19
106	Use of Titanium Dioxide To Find Phosphopeptide and Total Protein Changes During Epididymal Sperm Maturation. Journal of Proteome Research, 2011, 10, 1004-1017.	3.7	36
107	Corrosion behaviour of a 2219 aluminium alloy treated with a chromate conversion coating exposed to a 3.5% NaCl solution. Corrosion Science, 2011, 53, 1214-1223.	6.6	28
108	The omics revolution and our understanding of sperm cell biology. Asian Journal of Andrology, 2011, 13, 6-10.	1.6	56

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109	Remote plasma sputtering of indium tin oxide thin films for large area flexible electronics. <i>Thin Solid Films</i> , 2011, 520, 1207-1211.	1.8	14
110	The adsorption of an epoxy acrylate resin on aluminium alloy conversion coatings. <i>International Journal of Adhesion and Adhesives</i> , 2011, 31, 687-694.	2.9	5
111	Analysis of proteomic changes associated with sperm capacitation through the combined use of IPG strip prefractionation followed by RP chromatography LC-MS/MS analysis. <i>Proteomics</i> , 2010, 10, 482-495.	2.2	72
112	Label-Free Quantitation of Phosphopeptide Changes During Rat Sperm Capacitation. <i>Journal of Proteome Research</i> , 2010, 9, 718-729.	3.7	53
113	Localized corrosion of a 2219 aluminium alloy exposed to a 3.5% NaCl solution. <i>Corrosion Science</i> , 2010, 52, 2855-2866.	6.6	121
114	The nanostructure, wear and corrosion performance of arc-evaporated CrBxNy nanocomposite coatings. <i>Surface and Coatings Technology</i> , 2009, 204, 246-255.	4.8	33
115	Nanocomposite hydroxyapatite formation on a Ti-13Nb-13Zr alloy exposed in a MEM cell culture medium and the effect of H ₂ O ₂ addition. <i>Acta Biomaterialia</i> , 2009, 5, 63-75.	8.3	60
116	Phosphorylation and consequent stimulation of the tyrosine kinase c-Abl by PKA in mouse spermatozoa; its implications during capacitation. <i>Developmental Biology</i> , 2009, 333, 57-66.	2.0	49
117	Proteomic insights into spermatozoa: critiques, comments and concerns. <i>Expert Review of Proteomics</i> , 2009, 6, 691-705.	3.0	54
118	The rat sperm proteome characterized <i>via</i> IPG strip prefractionation and LC-MS/MS identification. <i>Proteomics</i> , 2008, 8, 2312-2321.	2.2	103
119	The mouse sperm proteome characterized <i>via</i> IPG strip prefractionation and LC-MS/MS identification. <i>Proteomics</i> , 2008, 8, 1720-1730.	2.2	149
120	Investigation of the electrochemical behaviour and surface chemistry of a Ti-13Nb-13Zr alloy exposed in MEM cell culture media with and without the addition of H ₂ O ₂ . <i>Surface and Interface Analysis</i> , 2008, 40, 220-224.	1.8	21
121	Failure characteristics of adhesively bonded aluminium for spacecraft applications. <i>Surface and Interface Analysis</i> , 2008, 40, 132-136.	1.8	2
122	Nanostructure, mechanical and tribological properties of reactive magnetron sputtered TiC _x coatings. <i>Diamond and Related Materials</i> , 2008, 17, 2054-2061.	3.9	61
123	Hard and superhard TiAlBN coatings deposited by twin electron-beam evaporation. <i>Surface and Coatings Technology</i> , 2007, 201, 6078-6083.	4.8	36
124	Identification of gene products present in Triton X-100 soluble and insoluble fractions of human spermatozoa lysates using LC-MS/MS analysis. <i>Proteomics - Clinical Applications</i> , 2007, 1, 524-532.	1.6	176
125	The influence of an OTS self-assembled monolayer on the wear-resistant properties of polysilicon based MEMS. <i>Surface and Interface Analysis</i> , 2006, 38, 863-867.	1.8	34
126	Simple surface treatments to modify protein adsorption and cell attachment properties within a poly(dimethylsiloxane) micro-bioreactor. <i>Surface and Interface Analysis</i> , 2006, 38, 198-201.	1.8	97

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127	Identification of SRC as a key PKA-stimulated tyrosine kinase involved in the capacitation-associated hyperactivation of murine spermatozoa. <i>Journal of Cell Science</i> , 2006, 119, 3182-3192.	2.0	170
128	Identification of post-translational modifications that occur during sperm maturation using difference in two-dimensional gel electrophoresis. <i>Proteomics</i> , 2005, 5, 1003-1012.	2.2	112
129	Identification of Cytochrome-b5 Reductase as the Enzyme Responsible for NADH-Dependent Lucigenin Chemiluminescence in Human Spermatozoa1. <i>Biology of Reproduction</i> , 2005, 73, 334-342.	2.7	54
130	Reactive oxygen species in spermatozoa: methods for monitoring and significance for the origins of genetic disease and infertility. <i>Reproductive Biology and Endocrinology</i> , 2005, 3, 67.	3.3	152
131	Identification of Cytochrome P450-Reductase as the Enzyme Responsible for NADPH-Dependent Lucigenin and Tetrazolium Salt Reduction in Rat Epididymal Sperm Preparations1. <i>Biology of Reproduction</i> , 2004, 71, 307-318.	2.7	68
132	A study of the surface chemistry, morphology and wear of silicon based MEMS. <i>Surface and Interface Analysis</i> , 2004, 36, 1254-1258.	1.8	4
133	The importance of redox regulated pathways in sperm cell biology. <i>Molecular and Cellular Endocrinology</i> , 2004, 216, 47-54.	3.2	155
134	Development of the signalling pathways associated with sperm capacitation during epididymal maturation. <i>Molecular Reproduction and Development</i> , 2003, 64, 446-457.	2.0	26
135	Investigation of sulphur diffusion at the CdS/CdTe interface of thin-film solar cells. <i>Surface and Interface Analysis</i> , 2002, 33, 825-829.	1.8	9
136	Electron spectroscopic studies of nanocomposite PVD TiAlBN coatings. <i>Vacuum</i> , 2002, 67, 471-476.	3.5	23
137	A comparison of in situ polishing and ion beam sputtering as surface preparation methods for XPS analysis of PVD coatings. <i>Thin Solid Films</i> , 2000, 377-378, 473-477.	1.8	26
138	The initiation of pitting corrosion at MnS inclusions. <i>Corrosion Science</i> , 1993, 34, 667-682.	6.6	185
139	The initiation of pitting corrosion of stainless steels at oxide inclusions. <i>Corrosion Science</i> , 1992, 33, 1295-1312.	6.6	79
140	Probing Nanoscale Schottky Barrier Characteristics at WSe ₂ /Graphene Heterostructures via Electrostatic Doping. <i>Advanced Electronic Materials</i> , 0, , 2200196.	5.1	3