

Maxence Bigerelle

List of Publications by Year in descending order

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140
papers

4,372
citations

117453

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118652

62
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140
all docs

140
docs citations

140
times ranked

4677
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Mechanical Properties of Spark Plasma Sintering-Processed Pure Ti and Ti-6Al-4V Alloys: A Comparative Study between Harmonic and Non-Harmonic Microstructures. <i>Compounds</i> , 2021, 1, 41-57. | 1.0 | 5 |
| 2 | Surface Texturization of Breast Implants Impacts Extracellular Matrix and Inflammatory Gene Expression in Asymptomatic Capsules. <i>Plastic and Reconstructive Surgery</i> , 2020, 145, 542e-551e. | 0.7 | 4 |
| 3 | Numerical Study of the Toughness of Complex Metal Matrix Composite Topologies. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6250. | 1.3 | 1 |
| 4 | Quantification of the Morphological Signature of Roping Based on Multiscale Analysis and Autocorrelation Function Description. <i>Materials</i> , 2020, 13, 3040. | 1.3 | 3 |
| 5 | Digital Cultural Heritage Preservation in Art Painting: A Surface Roughness Approach to the Brush Strokes. <i>Sensors</i> , 2020, 20, 6269. | 2.1 | 8 |
| 6 | A Multiscale Topographical Analysis Based on Morphological Information: The HEVC Multiscale Decomposition. <i>Materials</i> , 2020, 13, 5582. | 1.3 | 6 |
| 7 | Comparison of three multiscale methods for topographic analyses. <i>Surface Topography: Metrology and Properties</i> , 2020, 8, 024002. | 0.9 | 11 |
| 8 | Surface Reflectance: An Optical Method for Multiscale Curvature Characterization of Wear on Ceramic-Metal Composites. <i>Materials</i> , 2020, 13, 1024. | 1.3 | 12 |
| 9 | Mechanical Integrity of 3D Rough Surfaces during Contact. <i>Coatings</i> , 2020, 10, 15. | 1.2 | 3 |
| 10 | How to Select 2D and 3D Roughness Parameters at Their Relevant Scales by the Analysis of Covariance. <i>Materials</i> , 2020, 13, 1526. | 1.3 | 3 |
| 11 | Conductimetry technique for the measurement of thin liquid film thickness between two solid surfaces in relative motion: hydrodynamic lubrication. <i>Mechanics and Industry</i> , 2019, 20, 601. | 0.5 | 1 |
| 12 | Framework of models for selecting manufacturing processes and associated parameters for surface topographies. <i>Mechanics and Industry</i> , 2019, 20, 301. | 0.5 | 0 |
| 13 | Additive manufacturing process creates local surface roughness modifications leading to variation in cell adhesion on multifaceted TiAl6V4 samples. <i>Bioprinting</i> , 2019, 16, e00054. | 2.9 | 23 |
| 14 | A Biophysical Model for Curvature-Guided Cell Migration. <i>Biophysical Journal</i> , 2019, 117, 1136-1144. | 0.2 | 22 |
| 15 | A multi-topographical-instrument analysis: the breast implant texture measurement. <i>Surface Topography: Metrology and Properties</i> , 2017, 5, 025004. | 0.9 | 7 |
| 16 | Wear pattern on a retrieved Total Knee Replacement: The "fourth body abrasion". <i>Biotribology</i> , 2017, 11, 29-43. | 0.9 | 6 |
| 17 | The use of multiscale transfer functions for understanding the impact of successive mechanical treatments on surface topography. <i>Tribology International</i> , 2017, 114, 429-435. | 3.0 | 2 |
| 18 | Effect of Substrate Temperature on Pattern Formation of Bidispersed Particles from Volatile Drops. <i>Journal of Physical Chemistry B</i> , 2017, 121, 11002-11017. | 1.2 | 14 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Patterns from dried water-butanol binary-based nanofluid drops. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1. | 0.8 | 21 |
| 20 | Torsion delamination test, a new method to quantify the adhesion of coating: Application to car coatings. <i>Progress in Organic Coatings</i> , 2017, 110, 134-139. | 1.9 | 2 |
| 21 | Analyses of the Instabilities in the Discretized Diffusion Equations via Information Theory. <i>Entropy</i> , 2016, 18, 155. | 1.1 | 0 |
| 22 | Correlation modeling between process condition of sandblasting and surface texture: A multi-scale approach. <i>Scanning</i> , 2016, 38, 191-201. | 0.7 | 5 |
| 23 | Evaporation of Binary Sessile Drops: Infrared and Acoustic Methods To Track Alcohol Concentration at the Interface and on the Surface. <i>Langmuir</i> , 2016, 32, 9836-9845. | 1.6 | 26 |
| 24 | Characterization of Breast Implant Surfaces, Shapes, and Biomechanics: A Comparison of High Cohesive Anatomically Shaped Textured Silicone, Breast Implants from Three Different Manufacturers. <i>Aesthetic Plastic Surgery</i> , 2016, 40, 89-97. | 0.5 | 32 |
| 25 | Rolls wear characterization in hot rolling process. <i>Tribology International</i> , 2016, 100, 328-337. | 3.0 | 25 |
| 26 | Relationship between brightness and roughness of polypropylene abraded surfaces. <i>Polymer Engineering and Science</i> , 2016, 56, 103-117. | 1.5 | 6 |
| 27 | Multiscale roughness analysis of engineering surfaces: A comparison of methods for the investigation of functional correlations. <i>Mechanical Systems and Signal Processing</i> , 2016, 66-67, 437-457. | 4.4 | 56 |
| 28 | Different surface sensing of the cell body and nucleus in healthy primary cells and in a cancerous cell line on nanogrooves. <i>Biointerphases</i> , 2015, 10, 031004. | 0.6 | 12 |
| 29 | Flow rate distribution and effect of convection and radiation heat transfer on the temperature profile during a coil annealing process. <i>Heat and Mass Transfer</i> , 2015, 51, 265-276. | 1.2 | 4 |
| 30 | Effect of Substrate Temperature on Pattern Formation of Nanoparticles from Volatile Drops. <i>Langmuir</i> , 2015, 31, 3354-3367. | 1.6 | 129 |
| 31 | Quantitative approach to determine the mechanical properties by nanoindentation test: Application on sandblasted materials. <i>Tribology International</i> , 2015, 82, 297-304. | 3.0 | 8 |
| 32 | Identification of lubrication regime on textured surfaces by multi-scale decomposition. <i>Tribology International</i> , 2015, 82, 375-386. | 3.0 | 7 |
| 33 | Relation between surface hardening and roughness induced by ultrasonic shot peening. <i>Tribology International</i> , 2015, 83, 105-113. | 3.0 | 33 |
| 34 | The representative topography of worn hot rolling mill cylinders. <i>Tribology International</i> , 2015, 82, 387-399. | 3.0 | 5 |
| 35 | Decomposition of a tribological system by chaos theory on rough surfaces. <i>Tribology International</i> , 2015, 82, 561-576. | 3.0 | 4 |
| 36 | Wettability versus roughness: Multi-scales approach. <i>Tribology International</i> , 2015, 82, 343-349. | 3.0 | 82 |

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|----|--|-----|-----------|
| 37 | Relation between roughness and processing conditions of AISI 316L stainless steel treated by ultrasonic shot peening. Tribology International, 2015, 82, 319-329. | 3.0 | 47 |
| 38 | Review on Numerical Modeling of Instrumented Indentation Tests for Elastoplastic Material Behavior Identification. Archives of Computational Methods in Engineering, 2015, 22, 577-593. | 6.0 | 15 |
| 39 | 3D parameter to quantify the anisotropy measurement of periodic structures on rough surfaces. Scanning, 2014, 36, 127-133. | 0.7 | 7 |
| 40 | Optimization of the straightness measurements on rough surfaces by Monte Carlo simulation. Scanning, 2014, 36, 161-169. | 0.7 | 4 |
| 41 | Identification of Local Lubrication Regimes on Textured Surfaces by 3D Roughness Curvature Radius. Advanced Materials Research, 2014, 966-967, 120-125. | 0.3 | 1 |
| 42 | Relevance of roughness parameters of surface finish in precision hard turning. Scanning, 2014, 36, 86-94. | 0.7 | 7 |
| 43 | Effect of surface roughness in the determination of the mechanical properties of material using nanoindentation test. Scanning, 2014, 36, 134-149. | 0.7 | 50 |
| 44 | Dynamic evolution of interface roughness during friction and wear processes. Scanning, 2014, 36, 30-38. | 0.7 | 22 |
| 45 | How to select the most relevant 3D roughness parameters of a surface. Scanning, 2014, 36, 150-160. | 0.7 | 121 |
| 46 | Reflection on the measurement and use of the topography of the indentation imprint. Scanning, 2014, 36, 115-126. | 0.7 | 4 |
| 47 | On the relation between surface roughness of metallic substrates and adhesion of human primary bone cells. Scanning, 2014, 36, 11-20. | 0.7 | 45 |
| 48 | Roughness statistical influence on cell adhesion using profilometry and multiscale analysis. Scanning, 2014, 36, 2-10. | 0.7 | 26 |
| 49 | Roughness signature of tribological contact calculated by a new method of peaks curvature radius estimation on fractal surfaces. Tribology International, 2013, 65, 235-247. | 3.0 | 19 |
| 50 | Relevance of Wavelet Shape Selection in a complex signal. Mechanical Systems and Signal Processing, 2013, 41, 14-33. | 4.4 | 13 |
| 51 | An expert system to characterise the surfaces morphological properties according to their tribological functionalities: The relevance of a pair of roughness parameters. Tribology International, 2013, 59, 190-202. | 3.0 | 25 |
| 52 | Quantification of first contact detection errors on hardness and indentation size effect measurements. Tribology International, 2013, 59, 154-162. | 3.0 | 18 |
| 53 | Influence of abrasive grain geometry on friction coefficient and wear rate in belt finishing. Tribology International, 2013, 59, 30-37. | 3.0 | 65 |
| 54 | The ability of precision hard turning to increase rolling contact fatigue life. Tribology International, 2013, 59, 141-146. | 3.0 | 20 |

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|----|--|-----|-----------|
| 55 | Influence de l'amplitude de la rugosité de surfaces sablées sur la mesure de dureté par nanoindentation. <i>Materiaux Et Techniques</i> , 2013, 101, 305. | 0.3 | 2 |
| 56 | Determination of mechanical properties by nanoindentation in the case of viscous materials. <i>International Journal of Materials Research</i> , 2012, 103, 715-722. | 0.1 | 34 |
| 57 | Biocompatibility of the electrical discharge machining process on titanium surfaces. <i>International Journal of Mechatronics and Manufacturing Systems</i> , 2012, 5, 419. | 0.1 | 1 |
| 58 | Influence of roughness on ZDDP tribofilm formation in boundary lubricated fretting. <i>Tribology - Materials, Surfaces and Interfaces</i> , 2012, 6, 182-188. | 0.6 | 7 |
| 59 | Zero-Point Correction Method for Nanoindentation Tests to Accurately Quantify Hardness and Indentation Size Effect. <i>Strain</i> , 2012, 48, 491-497. | 1.4 | 20 |
| 60 | A comparison of models for predicting the true hardness of thin films. <i>Thin Solid Films</i> , 2012, 524, 229-237. | 0.8 | 28 |
| 61 | The multi-scale roughness analyses and modeling of abrasion with the grit size effect on ground surfaces. <i>Wear</i> , 2012, 286-287, 124-135. | 1.5 | 23 |
| 62 | An expert system to characterize the surface morphological properties according to their functionalities. <i>Journal of Physics: Conference Series</i> , 2011, 311, 012010. | 0.3 | 1 |
| 63 | New insights on contact angle/roughness dependence on high surface energy materials. <i>Applied Surface Science</i> , 2011, 257, 9631-9638. | 3.1 | 98 |
| 64 | A generic statistical methodology to predict the maximum pit depth of a localized corrosion process. <i>Corrosion Science</i> , 2011, 53, 2453-2467. | 3.0 | 30 |
| 65 | How to characterize the regularity of surface topographies?. <i>Journal of Physics: Conference Series</i> , 2011, 311, 012012. | 0.3 | 0 |
| 66 | 3D finite element model of elastoplastic contact on the double sinus rough surface. <i>Journal of Physics: Conference Series</i> , 2011, 311, 012011. | 0.3 | 1 |
| 67 | Wavelet theory and belt finishing process, influence of wavelet shape on the surface roughness parameter values. <i>Journal of Physics: Conference Series</i> , 2011, 311, 012013. | 0.3 | 1 |
| 68 | Existence of a typical threshold in the response of human mesenchymal stem cells to a peak and valley topography. <i>Acta Biomaterialia</i> , 2011, 7, 3302-3311. | 4.1 | 35 |
| 69 | Multiscale characteristic lengths of abraded surfaces: Three stages of the grit-size effect. <i>Tribology International</i> , 2011, 44, 63-80. | 3.0 | 12 |
| 70 | Scratch tests to contribute designing performance maps of multilayer polymeric coatings††This paper was presented at the 36th Leeds-Lyon Symposium on Tribology, Lyon 2009.. <i>Tribology International</i> , 2011, 44, 585-591. | 3.0 | 5 |
| 71 | Role of materials surface topography on mammalian cell response. <i>International Materials Reviews</i> , 2011, 56, 243-266. | 9.4 | 139 |
| 72 | A Method to Determine the Spatial Scale Implicated in Adhesion. Application on Human Cell Adhesion on Fractal Isotropic Rough Surfaces. <i>Journal of Adhesion</i> , 2011, 87, 644-670. | 1.8 | 3 |

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|----|--|-----|-----------|
| 73 | A new model of the heat transfer in materials: the surfacic potential algorithm. International Journal of Materials and Product Technology, 2010, 38, 66. | 0.1 | 1 |
| 74 | Relation between entropy, free energy and computational energy. International Journal of Materials and Product Technology, 2010, 38, 35. | 0.1 | 1 |
| 75 | Local coefficient of friction, sub-surface stresses and temperature distribution during sliding contact. International Journal of Materials and Product Technology, 2010, 38, 44. | 0.1 | 14 |
| 76 | Statistical approach of chemistry and topography effect on human osteoblast adhesion. Journal of Biomedical Materials Research - Part A, 2010, 94A, 1111-1123. | 2.1 | 3 |
| 77 | Definition of a simple statistical parameter for the quantification of orientation in two dimensions: Application to cells on grooves of nanometric depths. Acta Biomaterialia, 2010, 6, 2590-2598. | 4.1 | 18 |
| 78 | Presentation of a new method to measure the friction coefficient using an electromagnetic digital device. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2010, 224, 1019-1026. | 1.0 | 10 |
| 79 | A Four-Discrete-Position Electromagnetic Actuator: Modeling and Experimentation. IEEE/ASME Transactions on Mechatronics, 2010, 15, 88-96. | 3.7 | 43 |
| 80 | Relative influence of surface topography and surface chemistry on cell response to bone implant materials. Part 1: Physico-chemical effects. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2010, 224, 1471-1486. | 1.0 | 76 |
| 81 | Relative influence of surface topography and surface chemistry on cell response to bone implant materials. Part 2: Biological aspects. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2010, 224, 1487-1507. | 1.0 | 185 |
| 82 | Analysis of nanoindentation curves in the case of bulk amorphous polymers. International Journal of Materials Research, 2009, 100, 943-949. | 0.1 | 16 |
| 83 | Optimized design of a four discrete positions electromagnetic actuator. , 2009, , . | | 5 |
| 84 | Multi-scale analysis of high precision surfaces by Stylus Profiler, Scanning White-Light Interferometry and Atomic Force Microscopy. International Journal of Surface Science and Engineering, 2009, 3, 310. | 0.4 | 21 |
| 85 | Roughness characteristic length scales of belt finished surface. Journal of Materials Processing Technology, 2009, 209, 6103-6116. | 3.1 | 38 |
| 86 | Multiscale roughness analysis in injection molding process. Polymer Engineering and Science, 2008, 48, 1725-1736. | 1.5 | 21 |
| 87 | Mechanical modelling of micro-scale abrasion in superfinish belt grinding. Tribology International, 2008, 41, 992-1001. | 3.0 | 48 |
| 88 | Multiscale analysis of abrasion damage on stainless steel. Surface Engineering, 2008, 24, 8-17. | 1.1 | 10 |
| 89 | Relation usinabilit  topographie de la surface usin e. Analyse conventionnelle et par la th orie du chaos. Mecanique Et Industries, 2008, 9, 273-293. | 0.2 | 0 |
| 90 | A multiscale topography analysis of ground stainless steel and titanium alloys. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2007, 221, 1407-1420. | 1.5 | 5 |

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| 91 | Relations entre l'entropie physique, le codage de l'information et l'énergie de simulation. Canadian Journal of Physics, 2007, 85, 1381-1394. | 0.4 | 1 |
| 92 | Comments on the Mixture Detection Rule Used in SPC Control Charts. Communications in Statistics Part B: Simulation and Computation, 2007, 36, 1321-1331. | 0.6 | 1 |
| 93 | Multiscale similarity characterization of abraded surfaces. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2007, 221, 1473-1482. | 1.5 | 1 |
| 94 | Multiscale morphology of high-precision turning process surfaces. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2007, 221, 1485-1497. | 1.5 | 8 |
| 95 | Analyse de la rugosité obtenue par un nouveau procédé de tribofinition. Mecanique Et Industries, 2007, 8, 7-25. | 0.2 | 0 |
| 96 | A numerical method to calculate the Abbott parameters: A wear application. Tribology International, 2007, 40, 1319-1334. | 3.0 | 35 |
| 97 | Estimating the parameters of a generalized lambda distribution. Computational Statistics and Data Analysis, 2007, 51, 2813-2835. | 0.7 | 37 |
| 98 | The first indenter-sample contact and the indentation size effect in nano-hardness measurement. Materials Science and Engineering C, 2007, 27, 1448-1451. | 3.8 | 10 |
| 99 | A multi-scale approach of roughness measurements: Evaluation of the relevant scale. Materials Science and Engineering C, 2007, 27, 1434-1438. | 3.8 | 15 |
| 100 | A new methodology for quantifying the multi-scale similarity of images. Microelectronic Engineering, 2007, 84, 424-430. | 1.1 | 5 |
| 101 | Roughness characteristic length scales of micro-machined surfaces: A multi-scale modelling. Sensors and Actuators B: Chemical, 2007, 126, 126-137. | 4.0 | 36 |
| 102 | High temperature creep properties of zirconium and Zircaloy-4 in vacuum and oxygen environments. Journal of Nuclear Materials, 2007, 362, 309-315. | 1.3 | 5 |
| 103 | Modelling approach in cell/material interactions studies. Biomaterials, 2006, 27, 1187-1199. | 5.7 | 77 |
| 104 | Application of Lambda Distributions and Bootstrap analysis to the prediction of fatigue lifetime and confidence intervals. International Journal of Fatigue, 2006, 28, 223-236. | 2.8 | 24 |
| 105 | Monte Carlo simulation of gold nano-colloids aggregation morphologies on a heterogeneous surface. Materials Science and Engineering C, 2006, 26, 1111-1116. | 3.8 | 5 |
| 106 | Assessment of the constitutive law by inverse methodology: Small punch test and hardness. Journal of Nuclear Materials, 2006, 352, 97-106. | 1.3 | 55 |
| 107 | Application of the generalized lambda distributions in a statistical process control methodology. Journal of Process Control, 2006, 16, 1087-1098. | 1.7 | 23 |
| 108 | Contribution of statistical methods to the study of worn paint coatings surface topography. Surface and Coatings Technology, 2006, 200, 6088-6100. | 2.2 | 15 |

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|-----|---|-----|-----------|
| 109 | Effect of a gold-palladium coating on the long-term adhesion of human osteoblasts on biocompatible metallic materials. <i>Surface and Coatings Technology</i> , 2006, 200, 6325-6330. | 2.2 | 30 |
| 110 | About the relevance of roughness parameters used for characterizing worn femoral heads. <i>Tribology International</i> , 2006, 39, 1527-1537. | 3.0 | 17 |
| 111 | Statistical demonstration of the relative effect of surface chemistry and roughness on human osteoblast short-term adhesion. <i>Journal of Materials Science: Materials in Medicine</i> , 2006, 17, 471-479. | 1.7 | 106 |
| 112 | Perimeter analysis of the Von Koch island, application to the evolution of grain boundaries during heating. <i>Journal of Materials Science</i> , 2006, 41, 2509-2516. | 1.7 | 4 |
| 113 | Influence of the morphological texture on the low wear damage of paint coated sheets. <i>Progress in Organic Coatings</i> , 2006, 56, 81-89. | 1.9 | 11 |
| 114 | Analyse multi-échelle de l'abrasion. <i>Mecanique Et Industries</i> , 2006, 7, 13-20. | 0.2 | 2 |
| 115 | Multiscale functional analysis of wear. <i>Wear</i> , 2005, 258, 232-239. | 1.5 | 47 |
| 116 | Identification of scratch mechanisms on a retrieved metallic femoral head. <i>Wear</i> , 2005, 258, 240-250. | 1.5 | 19 |
| 117 | Topography effects of pure titanium substrates on human osteoblast long-term adhesion. <i>Acta Biomaterialia</i> , 2005, 1, 211-222. | 4.1 | 270 |
| 118 | Bootstrap analysis of the relation between initial adhesive events and long-term cellular functions of human osteoblasts cultured on biocompatible metallic substrates. <i>Acta Biomaterialia</i> , 2005, 1, 499-510. | 4.1 | 32 |
| 119 | Statistical correlation between cell adhesion and proliferation on biocompatible metallic materials. <i>Journal of Biomedical Materials Research Part B</i> , 2005, 72A, 36-46. | 3.0 | 65 |
| 120 | A kinetic approach to osteoblast adhesion on biomaterial surface. <i>Journal of Biomedical Materials Research - Part A</i> , 2005, 75A, 530-540. | 2.1 | 29 |
| 121 | Multiscale measures of equilibrium on finite dynamic systems. <i>Chaos, Solitons and Fractals</i> , 2004, 19, 1313-1322. | 2.5 | 2 |
| 122 | Statistical artefacts in the determination of the fractal dimension by the slit island method. <i>Engineering Fracture Mechanics</i> , 2004, 71, 1081-1105. | 2.0 | 17 |
| 123 | The measurement problem on classical diffusion process: inverse method on stochastic processes. <i>Chaos, Solitons and Fractals</i> , 2004, 20, 855-861. | 2.5 | 0 |
| 124 | Relevance of roughness parameters for describing and modelling machined surfaces. <i>Journal of Materials Science</i> , 2003, 38, 2525-2536. | 1.7 | 43 |
| 125 | Structure coarsening, entropy and compressed space dimension. <i>Chaos, Solitons and Fractals</i> , 2003, 18, 665-679. | 2.5 | 5 |
| 126 | The computer-based bootstrap method as a tool to select a relevant surface roughness parameter. <i>Wear</i> , 2003, 254, 450-460. | 1.5 | 40 |

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| 127 | A New Approach to Predict the Pit Depth Extreme Value of a Localized Corrosion Process. ISIJ International, 2003, 43, 720-725. | 0.6 | 15 |
| 128 | A new method to calculate the fractal dimension of an interface application to a Monte Carlo diffusion process. Computational Materials Science, 2002, 24, 122-127. | 1.4 | 6 |
| 129 | Characterisation of the diffusion states by data compression. Computational Materials Science, 2002, 24, 133-138. | 1.4 | 7 |
| 130 | Effect of grooved titanium substratum on human osteoblastic cell growth. Journal of Biomedical Materials Research Part B, 2002, 60, 529-540. | 3.0 | 158 |
| 131 | In vitro MC3T3 osteoblast adhesion with respect to surface roughness of Ti6Al4V substrates. New Biotechnology, 2002, 19, 133-141. | 2.7 | 191 |
| 132 | An unscaled parameter to measure the order of surfaces: a new surface elaboration to increase cells adhesion. New Biotechnology, 2002, 19, 79-83. | 2.7 | 31 |
| 133 | Improvement in the morphology of Ti-based surfaces: a new process to increase in vitro human osteoblast response. Biomaterials, 2002, 23, 1563-1577. | 5.7 | 185 |
| 134 | A new method to calculate the fractal dimension of surfaces: application to human cell proliferation. Computers and Mathematics With Applications, 2001, 42, 241-253. | 1.4 | 17 |
| 135 | Title is missing!. Journal of Materials Science Letters, 2001, 20, 1037-1039. | 0.5 | 3 |
| 136 | The relative influence of the topography and chemistry of TiAl6V4 surfaces on osteoblastic cell behaviour. Biomaterials, 2000, 21, 1567-1577. | 5.7 | 360 |
| 137 | Fractal dimension and classification of music. Chaos, Solitons and Fractals, 2000, 11, 2179-2192. | 2.5 | 64 |
| 138 | Statistical analysis of the Vickers hardness. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1999, 262, 256-263. | 2.6 | 42 |
| 139 | Bootstrap analysis of FCGR, application to the Paris relationship and to lifetime prediction. International Journal of Fatigue, 1999, 21, 299-307. | 2.8 | 30 |
| 140 | Fractals and fracture. Engineering Fracture Mechanics, 1998, 61, 119-139. | 2.0 | 119 |