

SCIENTIFIC PUBLICATIONS by **RICCARDO POLINI**

International journals / Riviste Internazionali

	IF (2010)
1. M. Barletta, G. Rubino, R. Valle and R. Polini, "Chemical Vapour Deposition of highly adherent diamond coatings onto Co-cemented tungsten carbides irradiated by high power diode laser", <i>ACS Applied Materials & Interfaces</i> , (2012) in press; dx.doi.org/10.1021/am2012992	2.925
2. V. Valentini, R. Polini, "Confined Functionalization of Mesoporous Silicon Layers", <i>J. Electrochem. Soc.</i> , 158 (2011) K35-K41.	2.427
3. R. Polini, M. Barletta, G. Cristofanilli, "Wear resistance of nano- and micro-crystalline diamond coatings onto WC-Co with Cr/CrN interlayers", <i>Thin Solid Films</i> , 519 (2010) 1629-1635.	1.935
4. G. Cristofanilli, R. Polini, M. Barletta, "HF-CVD of diamond coatings onto Fluidized Bed (FB) treated CrN interlayers", <i>Thin Solid Films</i> , 519 (2010) 1594-1599.	1.935
5. S. Zeppilli, J.C. Arnault, G. Gesset, P. Bergonzo, R. Polini, "Thermal stability and surface modifications of detonation diamond nanoparticles studied with X-ray photoelectron spectroscopy", <i>Diamond Relat. Mater.</i> , 19 (2010) 846-853.	1.825
6. F. Bozza, R. Polini, E. Traversa, "Electrophoretic Deposition of Dense $\text{La}_{0.8}\text{Sr}_{0.2}\text{Ga}_{0.8}\text{Mg}_{0.115}\text{Co}_{0.085}\text{O}_{3-\delta}$ Electrolyte Films from Single-Phase Powders for Intermediate Temperature Solid Oxide Fuel Cells", <i>J. Am. Ceram. Soc.</i> , 92 [9] (2009) 1999-2004.	2.169
7. F. Bozza, R. Polini, E. Traversa, "High performance anode-supported intermediate temperature solid oxide fuel cells (IT-SOFCs) with $\text{La}_{0.8}\text{Sr}_{0.2}\text{Ga}_{0.8}\text{Mg}_{0.2}\text{O}_{3-\delta}$ electrolyte films prepared by electrophoretic deposition", <i>Electrochem. Comm.</i> , 11 (2009) 1680-1683.	4.287
8. R. Polini, V. Valentini, G. Mattei, "Nanostructured sp^2 -Carbon Infiltration of Mesoporous Silicon Layers", <i>Journal of Nanoscience and Nanotechnology</i> , 9 (2009) 3927-3931.	1.352
9. F. Bozza, R. Polini, E. Traversa, "Electrophoretic Deposition of Dense Sr- and Mg-Doped LaGaO_3 Electrolyte Films on Porous La-Doped Ceria for Intermediate Temperature Solid Oxide Fuel Cells", <i>Fuel Cells</i> , 5 (2008) 344-350.	3.320
10. F. Quadrini, V. Tagliaferri and R. Polini, "Effect of coating roughness on performance of small CVD diamond coated tools", <i>Machining Science and Technology</i> , 12 (2008) 390-404.	0.459
11. J. C. Arnault, S. Saada, S. Delclos, L. Rocha, L. Intiso, R. Polini, A. Hoffman, S. Michaelson and P. Bergonzo, "Surface Science Contribution to the BEN Control on Si (100) and 3C-SiC (100): Towards Ultrathin Nanocrystalline Diamond Films", <i>Chem. Vap. Deposition</i> , 14 (2008) 187-195.	1.804
12. J. C. Arnault, S. Saada, O. A. Williams, K. Haenen, P. Bergonzo, M. Nesladek, R. Polini, E. Osawa, "Surface characterization of silicon substrates with diamond nanoparticles under UHV annealing", <i>Phys. Stat. Sol. (a)</i> 205 , No. 9, (2008) 2108-2113.	1.472
13. G. Cabral, J. Gäbler, J. Lindner, J. Grácio, R. Polini, "A study of diamond film deposition on WC-Co inserts for graphite machining: Effectiveness of SiC interlayers prepared by HFCVD", <i>Diamond Relat. Mater.</i> , 17 (2008) 1008-1014.	1.825
14. R. Polini, M. Barletta: "On the use of CrN/Cr and CrN interlayers in hot filament chemical vapour deposition (HF-CVD) of diamond films onto WC-Co substrates", <i>Diamond Relat. Mater.</i> , 17 (2008) 325-335.	1.825
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16. J. C. Arnault, L. Intiso, S. Saada, S. Delclos, P. Bergonzo, R. Polini, "Effect of 3C-SiC(100) initial surface stoichiometry on bias enhanced diamond nucleation", <i>Appl. Phys. Lett.</i> , 90 (2007) 044101.	3.841

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23. R. Polini, "Chemically vapour deposited diamond coatings on cemented tungsten carbides: substrates pretreatments, adhesion and cutting performance", <i>Thin Solid Films</i> , 515 , 4-13 (2006).	1.935
24. R. Polini, M. Barletta, M. Delogu, "Fluidized bed micro-machining and HFCVD of diamond films onto Co-cemented tungsten carbide (WC-Co) hardmetal slabs", <i>Thin Solid Films</i> , 515 , 87-94 (2006).	1.935
25. M. Barletta, G. Costanza, R. Polini, "Al ₂ O ₃ thin coating of AA 6082 T6 components using a fast regime fluidized bed", <i>Thin Solid Films</i> , 515 , 141-151 (2006).	1.935
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29. H. Sein, W. Ahmed, C. Rego, M. Jackson, R. Polini, "Comparative Investigation of Smooth Polycrystalline Diamond Films on Dental Burs by Chemical Vapor Deposition", <i>Journal of Materials Engineering and Performance</i> , 15 , 195-200 (2006).	0.639
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31. R. Polini, S. Kumashiro, M.J. Jackson, M. Amar, W. Ahmed, H. Sein, "A Study of Diamond Synthesis by Hot Filament Chemical Vapor Deposition on Nc Coatings", <i>Journal of Materials Engineering and Performance</i> , 15 , 218-222 (2006).	0.639
32. S. Licoccia, R. Polini, C. D' Ottavi, F. Serraino Fiory, M. L. Di Vona, E. Traversa, "A simple and versatile method for the synthesis of functional nanocrystalline oxides", <i>Journal of Nanoscience and Nanotechnology</i> , 5 , 592-595 (2005).	1.352

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38.	R. Polini, A. Pamio, E. Traversa, "Effect of synthetic route on sintering behaviour, phase purity and conductivity of Sr- and Mg-doped LaGaO ₃ perovskites", <i>J. Eur. Ceram. Soc.</i> , 24 , 1365-1370 (2004).	2.575
39.	H. Sein, W. Ahmed, M. Jackson, R. Woodward and R. Polini, "Performance and Characterisation of CVD Diamond coated, Sintered Diamond and WC-Co Cutting Tools for Dental and Micromachining Applications", <i>Thin Solid Films</i> , 447-448 , 455-461 (2004).	1.935
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44.	W. Ahmed, H. Sein, M. Jackson, R. Polini, "Chemical vapour deposition of diamond films onto tungsten carbide dental burs", <i>Tribol. Internat.</i> , 37 , 957-964 (2004).	1.560
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Brevetti / Patents

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Lavori pubblicati su Volumi Collettivi con referee / Extended Abstracts

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