

CURRICULUM VITAE di:

Nominativo	BEMPORAD EDOARDO
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Posizione accademica

Macrosettore:	09-D
Settore Concorsuale:	09-D1
Settore Scientifico Disciplinare:	Ing-Ind/22
Qualifica:	Professore Ordinario
Anzianità nel ruolo:	P.O. dal 2005
Sede Universitaria:	Università degli Studi di Roma 3
Struttura di appartenenza (dipartimento o altro)	Dipartimento di Ingegneria

Posizioni ricoperte precedentemente nel medesimo ateneo o in altri

Periodo	Fascia	Ateneo
2002-2005	Seconda	Roma TRE
1995-2002	Ricercatore	Roma TRE

Publicazioni Scientifiche (dal 2009 ad oggi)

1. Bolelli, G., Righi, M.G., Mughal, M.Z., Moscatelli, R., Ligabue, O., Antolotti, N., Sebastiani, M., Lusvarghi, L., Bemporad, E. Damage progression in thermal barrier coating systems during thermal cycling: A nano-mechanical assessment (2019) *Materials and Design*, 166, art. no. 107615, .
2. García Molleja, J., Bürgi, J., Kellermann, G., Craievich, A., Neuenschwander, R., Jouan, P.-Y., Djouadi, M.A., Piccoli, M., Bemporad, E., De Felicis, D., Feugeas, J.N. Synchrotron radiation applied to real-time studies of the kinetics of growth of aluminum nitride thin multilayers (2019) *Journal of Physical Chemistry B*, 123 (7), pp. 1679-1687.
3. Montagne, A., Vitry, V., Bonin, L., Mughal, M.Z., Sebastiani, M., Bemporad, E., Iost, A., Staia, M.H. Residual stresses and mechanical behavior of nickel-boron coatings [Contraintes résiduelles et

- comportement mécanique de revêtements nickel-bore] (2019) *Materials et Techniques*, 107 (2), art. no. 205, .
4. Deambrosis, S.M., Montagner, F., Zin, V., Fabrizio, M., Badini, C., Padovano, E., Sebastiani, M., Bemporad, E., Brunelli, K., Miorin, E. Ti_{1-x}Al_xN coatings by Reactive High Power Impulse Magnetron Sputtering: film/substrate interface effect on residual stress and high temperature oxidation (2018) *Surface and Coatings Technology*, 354, pp. 56-65.
 5. Ali, R., Renzelli, M., Imran Khan, M., Sebastiani, M., Bemporad, E. Effects of residual stress distribution on interfacial adhesion of magnetron sputtered AlN and AlN/Al nanostructured coatings on a (100) silicon substrate (2018) *Nanomaterials*, 8 (11), art. no. 896, .
 6. Ali, R., Shehbaz, T., Bemporad, E. Investigation on Failure in Thermal Barrier Coatings on Gas Turbine First-Stage Rotor Blade (2018) *Journal of Failure Analysis and Prevention*, 18 (5), pp. 1062-1072.
 7. Lekka, M., Offoiach, R., Lanzutti, A., Mughal, M.Z., Sebastiani, M., Bemporad, E., Fedrizzi, L. Ni-B electrodeposits with low B content: Effect of DMAB concentration on the internal stresses and the electrochemical behavior (2018) *Surface and Coatings Technology*, 344, pp. 190-196.
 8. Archie, F., Mughal, M.Z., Sebastiani, M., Bemporad, E., Zaeferrer, S. Anisotropic distribution of the micro residual stresses in lath martensite revealed by FIB ring-core milling technique (2018) *Acta Materialia*, 150, pp. 327-338.
 9. Korsunsky, A.M., Salvati, E., Lunt, A.G.J., Sui, T., Mughal, M.Z., Daniel, R., Keckes, J., Bemporad, E., Sebastiani, M. Nanoscale residual stress depth profiling by Focused Ion Beam milling and eigenstrain analysis (2018) *Materials and Design*, 145, pp. 55-64.
 10. Koumoulos, E.P., Tofail, S.A.M., Silien, C., De Felicis, D., Moscatelli, R., Dragatogiannis, D.A., Bemporad, E., Sebastiani, M., Charitidis, C.A. Metrology and nano-mechanical tests for nano-manufacturing and nano-bio interface: Challenges & future perspectives (2018) *Materials and Design*, 137, pp. 446-462.
 11. De Felicis, D., Mughal, M.Z., Bemporad, E. A method to improve the quality of 2.5 dimensional micro-and nano-structures produced by focused ion beam machining (2017) *Micron*, 101, pp. 8-15.
 12. Hassan, M., Borgese, L., Montesanti, G., Bemporad, E., Cesarini, G., Li Voti, R., Depero, L.E. Atomic layer deposition of semiconductor oxides on electric sail tethers (2017) *Thin Solid Films*, 621, pp. 195-201.
 13. Luisetto, I., Sarno, C., De Felicis, D., Basoli, F., Battocchio, C., Tuti, S., Bemporad, E., Licocchia, S., Di Bartolomeo, E. Packed and monolithic reactors for the dry reforming of methane: Ni supported on γ -Al₂O₃ promoted by Ru (2017) *Advanced Science Letters*, 23 (6), pp. 5977-5979.
 14. Renzelli, M., Mughal, M.Z., Sebastiani, M., Bemporad, E. Design, fabrication and characterization of multilayer Cr-CrN thin coatings with tailored residual stress profiles (2016) *Materials and Design*, 112, pp. 162-171.
 15. Tredici, I.G., Sebastiani, M., Massimi, F., Bemporad, E., Resmini, A., Merlati, G., Anselmi-Tamburini, U. Low temperature degradation resistant nanostructured yttria-stabilized zirconia for dental applications (2016) *Ceramics International*, 42 (7), pp. 8190-8197.
 16. Bürgi, J., Molleja, J.G., Bolmaro, R., Piccoli, M., Bemporad, E., Craievich, A., Feugeas, J. (1011) preferential orientation of polycrystalline AlN grown on SiO₂/Si wafers by reactive sputter magnetron technique (2016) *EPJ Applied Physics*, 74 (1), art. no. 10301, .

17. Misiano, C., Trucchi, D.M., Renzelli, M., Bemporad, E., Santoni, A., Pietropaolo, A., Vannozi, A., Celentano, G. Thin-film deposition and characterization for neutron detection applications (2015) *European Physical Journal Plus*, 130 (10), art. no. 218, 11 p.
18. Ali, R., Sebastiani, M., Bemporad, E. Influence of Ti-TiN multilayer PVD-coatings design on residual stresses and adhesion (2015) *Materials and Design*, 75, pp. 47-56.
19. Cusma, A., Sebastiani, M., De Felicis, D., Basso, A., Bemporad, E. Study on the correlation between microstructure corrosion and wear resistance of Ag-Cu-Ge alloys (2015) *Coatings*, 5 (1), pp. 78-94.
20. Sebastiani, M., Massimi, F., Merlati, G., Bemporad, E. Residual micro-stress distributions in heat-pressed ceramic on zirconia and porcelain-fused to metal systems: Analysis by FIB-DIC ring-core method and correlation with fracture toughness (2015) *Dental Materials*, 31 (11), pp. 1396-1405.
21. Pinheiro, B., Lesage, J., Pasqualino, I., Benseddiq, N., Bemporad, E. Toward a fatigue life assessment of steel pipes based on x-ray diffraction measurements (2015) *Proceedings of the International Conference on Offshore Mechanics and Arctic Engineering - OMAE*, 5B, .
22. Skliarova, H., Renzelli, M., Azzolini, O., De Felicis, D., Bemporad, E., Johnson, R.R., Palmieri, V. Niobium-niobium oxide multilayered coatings for corrosion protection of proton-irradiated liquid water targets for [18F] production (2015) *Thin Solid Films*, 591, pp. 316-322.
23. Deambrosis, S.M., Miorin, E., Montagner, F., Zin, V., Fabrizio, M., Sebastiani, M., Massimi, F., Bemporad, E. Structural, morphological and mechanical characterization of Mo sputtered coatings (2015) *Surface and Coatings Technology*, 266, pp. 14-21.
24. García Molleja, J., Milanese, M., Gómez, B.J., Moroso, R., Piccoli, M., Niedbalski, J., Bürgi, J., Bemporad, E., Feugeas, J. Behavior of nitrided and carburized AISI 904-L stainless steels under severe light ion beam irradiation with plasma focus (2015) *Surface and Interface Analysis*, 47 (6), pp. 728-737.
25. Celentano, G., Vannozi, A., Mancini, A., Santoni, A., Pietropaolo, A., Claps, G., Bemporad, E., Renzelli, M., Murtas, F., Quintieri, L. 10B enriched film deposited by e-beam technique on Al₂O₃ substrate for high efficiency thermal neutron detector (2015) *Surface and Coatings Technology*, 265, pp. 160-165.
26. Sytchkova, A., De Felicis, D., Grilli, M.L., Rinaldi, A., Zola, D., Piegari, A., Bemporad, E., Hu, G., He, H., Kui, Y., Shao, J. Prototyping fishnet metamaterials: Alumina-silver-based structures (2015) *Proceedings of SPIE - The International Society for Optical Engineering*, 9627, art. no. 96271J, .
27. Sebastiani, M., Eberl, C., Bemporad, E., Korsunsky, A.M., Nix, W.D., Carassiti, F. Focused ion beam four-slot milling for Poisson's ratio and residual stress evaluation at the micron scale (2014) *Surface and Coatings Technology*, 251, pp. 151-161.
28. Bemporad, E., Vannozi, A., Fabbri, F., Augieri, A., Angrisani Armenio, A., Galluzzi, V., Mancini, A., Rizzo, F., Rufoloni, A., Padilla, J.A., Xuriguera, E., De Felicis, D., Bempoard, E., Celentano, G. On the use of copper-based substrates for YBCO coated conductors (2014) *Journal of Physics: Conference Series*, 507 (2), art. no. 022048,
29. Bandini, A., Bemporad, E., Sebastiani, M., Chicot, D. Role of grain boundaries and micro-defects on the mechanical response of a crystalline rock at multiscale (2014) *International Journal of Rock Mechanics and Mining Sciences*, 71, pp. 429-441.
30. Battaini, P., Bemporad, E., De Felicis, D. The fire assay reloaded (2014) *Gold Bulletin*, 47 (1-2), pp. 9-20.

31. Sebastiani, M., Renzelli, M., Battaini, P., Bemporad, E. Focused ion beam and nanomechanical tests for high resolution surface characterisation: New resources for platinum group metals testing (2014) *Johnson Matthey Technology Review*, 58 (1), pp. 3-19.
32. Sebastiani, M., Bemporad, E., Schwarzer, N., Carassiti, F. Effects of residual stress on nanomechanical behavior of thin films (2014) *Solid Mechanics and its Applications*, 203, pp. 263-284.
33. Massimi, F., Sebastiani, M., De Felicis, D., Bemporad, E. The Micrometric Rosetta method for the multidirectional measuring of the residual stress by focused ion beam Ring Core technique [Metodo della rosetta micrometrica per la misura multidirezionale degli stress residui tramite tecnologia a fascio ionico focalizzato] (2014) *Metallurgia Italiana*, 106 (11-12), pp. 21-30.
34. Sebastiani, M., Renzelli, M., Battaini, P., Bemporad, E. Focused ion beam and nanomechanical tests for high resolution surface characterisation: New resources for platinum group metals testing: Use of two high resolution techniques allows process optimisation and prediction of in-service behavior (2014) *Platinum Metals Review*, 58 (1), pp. 3-19.
35. Sebastiani, M., Cusmà, A., Bemporad, E., Carassiti, F. Elastic anisotropy of coatings by AFM analysis of microindentations (2014) *Surface Engineering*, 30 (1), pp. 41-47.
36. Bandini, A., Berry, P., Bemporad, E., Sebastiani, M., Tiwari, A. Nanomechanical characterization of brittle rocks (2014) *Solid Mechanics and its Applications*, 203, pp. 209-229.
37. Sebastiani, M., Korsunsky, A.M., Eberl, C., Bemporad, E., Pharr, G.M. Discussion on "Interfacial Residual Stress Analysis of Thermal Spray Coatings by Miniature Ring-Core Cutting Combined with DIC Method" by J.G. Zhu et al., *Experimental Mechanics* DOI:10.1007/s11340-012-9640-2 (2014) *Experimental Mechanics*, 54 (7), pp. 1305-1306.
38. Pausa, L., Andreatta, F., De Felicis, D., Bemporad, E., Fedrizzi, L. Investigation of AA2024-T3 surfaces modified by cerium compounds: A localized approach (2014) *Corrosion Science*, 78, pp. 215-222.
39. Bemporad, E., Brisotto, M., Depero, L.E., Gelfi, M., Korsunsky, A.M., Lunt, A.J.G., Sebastiani, M. A critical comparison between XRD and FIB residual stress measurement techniques in thin films (2014) *Thin Solid Films*, 572, pp. 224-231.
40. Deambrosis, S.M., Miorin, E., Montagner, F., Zin, V., Sebastiani, M., Dellasega, D., Passoni, M., Bemporad, E., Fabrizio, M. PVD refractory metal based coatings for tribological applications (2014) *5th World Tribology Congress, WTC 2013*, 3, pp. 2401-2404.
41. MacChi, C., Bürgi, J., García Molleja, J., Mariazzi, S., Piccoli, M., Bemporad, E., Feugeas, J., Brusa, R.S., Somoza, A. Depth profiling and morphological characterization of AlN thin films deposited on Si substrates using a reactive sputter magnetron (2014) *EPJ Applied Physics*, 67 (2), art. no. ap140191,
42. Petrisor, T., Jr., Mos, R.B., Nasui, M., Gabor, M.S., Augieri, A., Celentano, G., Felicis, D.D., Bemporad, E., Ciontea, L., Petrisor, T. The Vortex Path Model Analysis of the Field Angle Dependence of the Critical Current Density in Nanocomposite $YBa_2Cu_3O_{7-x}$ - $BaZrO_3$ Films Obtained by Low Fluorine Chemical Solution Deposition (2014) *Journal of Superconductivity and Novel Magnetism*, 27 (11), pp. 2493-2500.
43. Pinheiro, B., Lesage, J., Pasqualino, I., Bemporad, E., Benseddiq, N. X-ray diffraction study of microstructural changes during fatigue damage initiation in pipe steels: Role of the initial dislocation structure (2013) *Materials Science and Engineering A*, 580, pp. 1-12.

44. Diamanti, M.V., Sebastiani, M., Mangione, V., Del Curto, B., Pedferri, M.P., Bemporad, E., Cigada, A., Carassiti, F. Multi-step anodizing on Ti6Al4V components to improve tribomechanical performances (2013) *Surface and Coatings Technology*, 227, pp. 19-27.
45. Tulliani, J.-M., Bemporad, E., Sebastiani, M., Pulci, G., Tirillò, J., Bartuli, C. Dense and cellular zirconia produced by gel casting with agar: Preparation and high temperature characterization (2013) *Journal of Nanomaterials*, 2013, art. no. 108076, .
46. Varlese, F.A., Tului, M., Sabbadini, S., Pellissero, F., Sebastiani, M., Bemporad, E. Optimized coating procedure for the protection of TiAl intermetallic alloy against high temperature oxidation (2013) *Intermetallics*, 37, pp. 76-82.
47. Sebastiani, M., Piccoli, M., Bemporad, E. Effect of micro-droplets on the local residual stress field in CAE-PVD thin coatings (2013) *Surface and Coatings Technology*, 215, pp. 407-412.
48. García Molleja, J., Milanese, M., Piccoli, M., Moroso, R., Niedbalski, J., Nosei, L., Bürgi, J., Bemporad, E., Feugeas, J. Stability of expanded austenite, generated by ion carburizing and ion nitriding of AISI 316L SS, under high temperature and high energy pulsed ion beam irradiation (2013) *Surface and Coatings Technology*, 218 (1), pp. 142-151.
49. Pinheiro, B., Lesage, J., Pasqualino, I., Benseddiq, N., Bemporad, E. X-ray diffraction study of microstructural changes during fatigue damage in steel pipelines (2012) *Proceedings of the International Conference on Offshore Mechanics and Arctic Engineering - OMAE*, 3, pp. 295-304.
50. Pinheiro, B., Lesage, J., Pasqualino, I., Benseddiq, N., Bemporad, E. X-ray diffraction study of microstructural changes during fatigue damage initiation in steel pipes (2012) *Proceedings of the Biennial International Pipeline Conference, IPC*, 3, pp. 661-670.
51. Bandini, A., Berry, P., Bemporad, E., Sebastiani, M. Effects of intra-crystalline microcracks on the mechanical behavior of a marble under indentation (2012) *International Journal of Rock Mechanics and Mining Sciences*, 54, pp. 47-55.
52. Sebastiani, M., Bolelli, G., Lusvardi, L., Bandyopadhyay, P.P., Bemporad, E. High resolution residual stress measurement on amorphous and crystalline plasma-sprayed single-splats (2012) *Surface and Coatings Technology*, 206 (23), pp. 4872-4880.
53. Sebastiani, M., Mangione, V., De Felicis, D., Bemporad, E., Carassiti, F. Wear mechanisms and in-service surface modifications of a Stellite 6B Co-Cr alloy (2012) *Wear*, 290-291, pp. 10-17.
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55. Mazzola, L., Bemporad, E., Carassiti, F. An easy way to measure surface free energy by drop shape analysis (2012) *Measurement: Journal of the International Measurement Confederation*, 45 (3), pp. 317-324.
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69. Massimi, F., Merlati, G., Sebastiani, M., Battaini, P., Menghini, P., Bemporad, E. FIB/SEM and SEM/EDS microstructural analysis of metal-ceramic and zirconia-ceramic interfaces. (2011) *Bulletin du Groupement international pour la recherche scientifique en stomatologie & odontologie*, 50 (3), pp. 1-10.
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