ALESSANDRO LATINI
Curriculum Vitae

Part I – General Information

Full Name	Alessandro Latini
Spoken Languages	Italian, English

Part II – Education

Type	Year	Institution	Notes (Degree, Experience,…)
University graduation	2001	Università degli Studi di Roma La Sapienza	Chemistry, 110/110 e lode
PhD	2006	Università degli Studi di Roma La Sapienza	Chemical Sciences; Visiting Student at the National Institute for Material Science, Tsukuba, Japan with a JISTEC REES Program Fellowship (July-August 2005)

Part III – Appointments

IIIA – Academic Appointments

Start	End	Institution	Position
2007	Current	Department of Chemistry, Università degli Studi di Roma La Sapienza	Permanent Researcher

IIIB – Other Appointments

Start	End	Institution	Position
2019	Current	Dipartimento di Chimica Università degli Studi di Roma La Sapienza	Member of the PhD board in Chemical Sciences
2016	2019	Facoltà di Scienze Matematiche, Fisiche e Naturali Università degli Studi di Roma La Sapienza	Member of the Faculty board
2016	2019	Dipartimento di Chimica Università degli Studi di Roma La Sapienza	Member of the Department board
2010	2013	Dipartimento di Chimica Università degli Studi di Roma La Sapienza	Member of the Department board
2016	2016	Chemistry School, University of Costa Rica	Invited Scientist
2019	2019	Università degli Studi della Basilicata	Member of the selection board for a A-type fixed-term reseacher position (RTD-A), SSD CHIM/02

2011	2018	The Executive Unit for Financing Higher Education, Research, Development and Innovation (UEFISCDI) of the Romanian Ministry of National Education.	Evaluator of research projects
2016	current	Ministero dell'Istruzione dell'Università e della Ricerca	Registered in the REPRISE register of Scientific Experts

Part IV – Teaching experience

Year	Institution	Lecture/Course
2008/2009	Università degli Studi di Roma La Sapienza	Teacher of the thermodynamics module of the "Laboratorio di Chimica Fisica" (3 CFU) course for the Degree in Chemistry
2008/2009	Università degli Studi di Roma La Sapienza	Teacher of the course "Materiali Funzionali e Strutturali" (5 CFU) for the Degree in Chemistry
2009/2010	Università degli Studi di Roma La Sapienza	Teacher of the course "Materiali Funzionali e Strutturali" (5 CFU) for the Degree in Chemistry
2010/2011	Università degli Studi di Roma La Sapienza	Teacher of the course "Chimica Fisica dello Stato Solido e Materiali Nanostrutturati" (6 CFU) for the Master Degree in Industrial Chemistry
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2012/2013	Università degli Studi di Roma La Sapienza	Teacher of the course "Chimica Fisica dello Stato Solido e Materiali Nanostrutturati" (6 CFU) for the Master Degree in Industrial Chemistry
2017/2018	Università degli Studi di Roma La Sapienza	Teacher of the course "Chimica Generale e Inorganica" (9 CFU) for the Degree in Agro-Industrial Biotechnology
2018/2019	Università degli Studi di Roma La Sapienza	Teacher of the course "Chimica Generale e Inorganica" (9 CFU) for the Degree in Agro-Industrial Biotechnology
2019/2020	Università degli Studi di Roma La Sapienza	Teacher of the course "Chimica Generale e Inorganica" (6 CFU) for the Degree in Natural Sciences
2019/2020	Università degli Studi di Roma La Sapienza	Teacher of the course "Chimica Fisica III e Laboratorio" (3 CFU) for the Degree in Chemistry
2007-current	Università degli Studi di Roma La Sapienza	Supervisor of 5 Master degree theses in Chemistry, 2 PhD theses in Chemical Sciences and 1 PhD thesis in mathematical models for engineering, electromagnetics and nanosciences - Curriculum in materials

	science.

Part V - Society memberberships, Awards and Honors

Year	Title
2017-current	Member of the Italian Society of Chemistry (SCI)-Physical Chemistry Division
2020-current	Member of the Editorial Board of the international, peer reviewed journal Coatings (MDPI)

Part VI - Funding Information [grants as PI-principal investigator or I-investigator]

Year	Title	Program	Grant value
2009	Dai minerali ai materiali: relazioni fra struttura, proprietà fisiche e applicazioni in ossidi multipli naturali e di sintesi	Progetti di Ricerca Universitari - I	€ 22000
2009	Nanostrutture di carbonio funzionalizzate con sistemi metallici	Ricerche di Ateneo Federato - I	€ 5180
2009	Sintesi, caratterizzazione e funzionalizzazione di nanotubi di carbonio per applicazioni fotovoltaiche	PRIN 2009 - I	€ 218198
2010	Sintesi e caratterizzazione di ossidi semiconduttori nanostrutturati per celle fotovoltaiche DSSC (Dye Sensitized Solar Cells)	Progetti di Ricerca Universitari - I	€ 35000
2011	Sintesi e caratterizzazione di nanocompositi nanotubo di carbonio/semiconduttore per Dye Sensitized Solar Cells (DSSC)	Progetti di Ricerca Universitari - I	€ 4000
2012	Sintesi, caratterizzazione di soluzioni solide di ossidi metallici per celle fotovoltaiche a coloranti e loro test in dispositivi reali	Progetti di Ricerca Universitari - PI	€ 2000
2013	Sistemi mesoporosi costituiti da soluzioni solide di ossidi metallici per celle fotovoltaiche a colorante	Progetti di Ricerca Universitari - PI	€ 7200
2014	Studio di Materiali Polimerici Basati su Interazioni Covalenti e Supramolecolari tra Strutture Molecolari Cicliche Interbloccate (Catenani e Rotassani) e non	Progetti di Ricerca Universitari - I	€ 5000
2015	Development and characterization of reactive materials for groundwater remediation	Progetti di Ricerca Universitari - I	€ 25000
2015	Multifunctional nanotools for advanced cancer diagnostics	PRIN 2015 - I	€ 276000

2016	Niobium pentoxide as photoanode material for dye-sensitized solar cells	Progetti di Ricerca Universitari - PI	€ 4000
2017	Macrocicli porfirazinici e loro applicazioni in campo biomedico nel campo della terapia anticancro bi/multimodale, nel trattamento di biofilm batterici, nel campo dei sensori chimici	Progetti di Ricerca Universitari - I	€ 12000
2017	Novel Multilayered and Micro-Machined Electrode Nano-Architectures for Electrocatalytic Applications (Fuel Cells and Electrolyzers)	PRIN 2017 - I	€ 692840
2018	Sintesi, caratterizzazione e studio della stabilità termodinamica di nuovi sistemi perovskitici ibridi piombo alogenuro	Progetti di Ricerca Universitari - PI	€ 14000
2019	Confined nanometals: strUcture and properties of alkali meTals in mEsopores (CUTE)	Progetti di Ricerca Universitari - PI	€ 14000

Part VII – Research Activities

Keywords	Brief Description
Thin films Thermodynamics Nanomaterials Dye-sensitized solar cells Hybrid lead halide perovskites	Investigation of the kinetics of carbon nanotubes (CNT) growth and simultaneous production of CO_x-free hydrogen from thermal catalysed decomposition of light hydrocarbons on intermetallic catalysts and on metal nanostructures by means of mass spectrometric real-time analysis and thermogravimetry. Characterization of the CNTs by electron microscopy techniques (SEM-EDS, TEM, HRTEM), electron, and X-ray diffraction. High temperature CNTs reactivity towards oxidizing species at low fugacity. Chemical functionalization of CNTs and realization of CNT-based nanocomposites. Physical modelling of the nucleation and growth mechanism of CNTs from the experimental data. Growth of luminescent ceramic thin films vapour-phase doped with rare earth trivalent ions (Eu^{3+}, Tb^{3+} and Tm^{3+}) by electron beam physical vapor deposition. Evaluation of the most suitable host oxides from their thermodynamic, physical, structural and spectroscopic properties. Characterization of the above films by means of chemical (EDS) morpological (SEM) and structural (HRTEM, thin film XRD, EXAFS, XANES) analysis. Characterization of the films' emission properties by chromaticity, cathodo- and photoluminescence measurements. Growth and structural (XRD), morphological (SEM), chemical (EDS) characterization of ceramic for biomedical and mechanical applications. Study of thermodynamic properties of intermetallics, alloys, inorganic compounds and nanomaterials by means of differential scanning calorimetry and solid state-high temperature galvanic cells (CaF_2 solid electrolyte). Dye-sensitized solar cells, with particular emphasis on the improvement of their performances by chemical and/or structural modification of the photoanodic materials. Synthesis and characterization of

new materials for energy conversion applications (wide gap oxide semiconductors, hybrid lead halide perovskites), with special emphasis on the thermal and thermodynamic stability determination of hybrid lead halide perovkites by experimental techniques.

Part VIII – Summary of Scientific Achievements

Product type	Number	Data Base	Start	End
Papers [international]	75	Scopus	2002	2020
Books [teaching]	1	ISBN 9788808920539	2020	current

Total Citations	1251
Average Citations per Product	16.68
Hirsch (H) index	21

Part IX– Publications

1. Vecchio Ciprioti, S., Ciccioli, A., Mele, M.L., Russo, P., Pulci, G., Latini, A.
Heat capacity and thermodynamic functions of di-,tri- and tetramethylammonium lead iodide perovskites from 289 to 473 K
(2020) Thermochimica Acta, 687, art. no. 178583.

2. Cavalu, S., Fritea, L., Brocks, M., Barbaro, K., Murvai, G., Costea, T.O., Antoniac, I., Verona, C., Romani, M., Latini, A., Zilli, R., Rau, J.V.
Novel hybrid composites based on PVA/SeTiO2 nanoparticles and natural hydroxyapatite for orthopedic applications: Correlations between structural, morphological and biocompatibility properties
(2020) Materials, 13 (9), art. no. 2077, .

3. Latini, A., Quaranta, S., Menchini, F., Lisi, N., Di Girolamo, D., Tarquini, O., Colapietro, M., Barba, L., Demitri, N., Cassetta, A.
A novel water-resistant and thermally stable black lead halide perovskite, phenyl viologen lead iodide C22H18N2(PbI3)2
(2020) Dalton Transactions, 49 (8), pp. 2616-2627.

4. Di Girolamo, D., Phung, N., Kosasih, F.U., Di Giacomo, F., Matteocci, F., Smith, J.A., Flatken, M.A., Köbler, H., Turren Cruz, S.H., Mattoni, A., Cinà, L., Rech, B., Latini, A., Divitini, G., Ducati, C., Di Carlo, A., Dini, D., Abate, A.
Ion Migration-Induced Amorphization and Phase Segregation as a Degradation Mechanism in Planar Perovskite Solar Cells
(2020) Advanced Energy Materials, 2000310.

5. Cianciosi, A., Costantini, M., Bergamasco, S., Testa, S., Fornetti, E., Jaroszewicz, J., Baldi, J., Latini, A., Choińska, E., Heljak, M., Zoccali, C., Cannata, S., Święszkowski, W., Diaz Lantada, A., Gargioli, C., Barbetta, A.
Engineering Human-Scale Artificial Bone Grafts for Treating Critical-Size Bone Defects
(2019) ACS Applied Bio Materials, 2 (11), pp. 5077-5092.

6. Rubino, A., Schiavi, P.G., Altimari, P., Latini, A., Pagnanelli, F.
Ti/TiO2/Cu2O based electrodes as photocatalysts in PEC cells
(2019) Chemical Engineering Transactions, 73, pp. 73-78.

7. Bonis, A.D., Galasso, A., Latini, A., Rau, J.V., Santagata, A., Curcio, M., Teghil, R.
Femtosecond pulsed laser deposition of chromium diboride-rich thin films
(2019) Coatings, 9 (12), art. no. 777.

8. Ciccioli, A., Panetta, R., Luongo, A., Brunetti, B., Vecchio Ciprioti, S., Mele, M.L., Latini, A.
Stabilizing lead halide perovskites with quaternary ammonium cations: The case of tetramethylammonium lead iodide
(2019) Physical Chemistry Chemical Physics, 21 (44), pp. 24768-24777.

9. D'Annibale, A., Panetta, R., Tarquini, O., Colapietro, M., Quaranta, S., Cassetta, A., Barba, L., Chita, G., Latini, A.
Synthesis, physico-chemical characterization and structure of the elusive hydroxylammonium lead iodide perovskite NH 3 OHPbI 3
(2019) Dalton Transactions, 48 (16), pp. 5397-5407.

10. Panetta, R., Quaranta, S., Latini, A.
Screen printed Pb3O4 films and their application to photoresponsive and photoelectrochemical devices
(2018) Materials, 11 (7), art. no. 1189.

11. Ciccioli, A., Latini, A.
Thermodynamics and the Intrinsic Stability of Lead Halide Perovskites CH3NH3PbX3
(2018) Journal of Physical Chemistry Letters, 9 (13), pp. 3756-3765.

12. Latini, A., Panetta, R.
Test of different sensitizing dyes in dye-sensitized solar cells based on Nb2O5 photoanodes
(2018) Energies, 11 (4), art. no. en11040975.

13. Panetta, R., Righini, G., Colapietro, M., Barba, L., Tedeschi, D., Polimeni, A., Ciccioli, A., Latini, A.
Azetidinium lead iodide: Synthesis, structural and physico-chemical characterization
(2018) Journal of Materials Chemistry A, 6 (21), pp. 10135-10148.

14. Panetta, R., Latini, A., Pettiti, I., Cavallo, C.
Synthesis and characterization of Nb2O5 mesostructures with tunable morphology and their application in dye-sensitized solar cells
(2017) Materials Chemistry and Physics, 202, pp. 289-301.

15. Panetta, R., Latini, A.
A simple synthesis of the refractory ceramic sulfide CeS by electron beam irradiation
(2017) Journal of the American Ceramic Society, 100 (11), pp. 4971-4976.

16. Davis, V.L., Quaranta, S., Cavallo, C., Latini, A., Gaspari, F.
Effect of single-chirality single-walled carbon nanotubes in dye sensitized solar cells photoanodes
(2017) Solar Energy Materials and Solar Cells, 167, pp. 162-172.

17. Brunetti, B., Cavallo, C., Ciccioli, A., Gigli, G., Latini, A.
Corrigendum: On the Thermal and Thermodynamic (In)Stability of Methylammonium Lead Halide Perovskites
(2017) Scientific reports, 7, p. 46867.

18. Smirnov, I.V., Rau, J.V., Fosca, M., de Bonis, A., Latini, A., Teghil, R., Kalita, V.I., Fedotov, A.Y., Gudkov, S.V., Baranchikov, A.E., Komlev, V.S.
Structural modification of titanium surface by octacalcium phosphate via pulsed laser deposition and chemical treatment
(2017) Bioactive Materials, 2 (2), pp. 101-107.

19. Latini, A., Gigli, G., Ciccioli, A.
A study on the nature of the thermal decomposition of methylammonium lead iodide perovskite, CH3NH3PbI3: an attempt to rationalise contradictory experimental results
(2017) Sustainable Energy and Fuels, 1 (6), pp. 1351-1357.

20. Silvani, L., Latini, A., Reible, D., Papini, M.P.
Characterizing toluene adsorption onto carbon nanotubes for environmental applications
(2017) Desalination and Water Treatment, 60, pp. 218-227.

21. Cavallo, C., Di Pascasio, F., Latini, A., Bonomo, M., Dini, D.
Nanostructured Semiconductor Materials for Dye-Sensitized Solar Cells
(2017) Journal of Nanomaterials, 2017, art. no. 5323164.

22. Laschuk, N.O., Ebralidze, I.I., Quaranta, S., Kerr, S.T.W., Egan, J.G., Gillis, S., Gaspari, F., Latini, A., Zenkina, O.V.
Rational design of a material for rapid colorimetric Fe2+ detection
(2016) Materials and Design, 107, pp. 18-25.

23. Massimi, L., Betti, M.G., Caramazza, S., Postorino, P., Mariani, C., Latini, A., Leardini, F.
In-vacuum thermolysis of ethane 1,2-diamineborane for the synthesis of ternary borocarbonitrides
(2016) Nanotechnology, 27 (43), art. no. 435601.

24. Di Pascasio, F., Genova, V., Gozzi, D., Latini, A., Lazzarini, L.
High temperatures gas-solid reactivity of aluminum-carbon nanotubes composites
(2016) Thermochimica Acta, 640, pp. 8-18.

25. Brunetti, B., Cavallo, C., Ciccioli, A., Gigli, G., Latini, A.
On the Thermal and Thermodynamic (In)Stability of Methylammonium Lead Halide Perovskites
(2016) Scientific Reports, 6, art. no. 31896.

26. Loche, D., Casula, M.F., Corrias, A., Marras, C., Gozzi, D., Latini, A.
Catalytic chemical vapour deposition on MFe2O4-SiO2 (M = Co, Mn, Ni) nanocomposite aerogel catalysts for the production of multi walled carbon nanotubes
(2016) Journal of Nanoscience and Nanotechnology, 16 (7), pp. 7750-7757.

27. Vitucci, F.M., Paolone, A., Palumbo, O., Greco, G., Lombardo, L., Köntje, M., Latini, A., Panero, S., Brutti, S.
High-Temperature Structural Evolution of the Disordered LiMn1.5Ni0.5O4
(2016) Journal of the American Ceramic Society, 99 (5), pp. 1815-1822.

28. Cavallo, C., Salleo, A., Gozzi, D., Di Pascasio, F., Quaranta, S., Panetta, R., Latini, A.
Solid Solutions of Rare Earth Cations in Mesoporous Anatase Beads and Their Performances in Dye-Sensitized Solar Cells
(2015) Scientific Reports, 5, art. no. 16785.

29. Genova, V., Gozzi, D., Latini, A.
High-temperature resistivity of aluminum–carbon nanotube composites
(2015) Journal of Materials Science, 50 (21), pp. 7087-7096.

30. Maretto, M., Vignola, R., Williams, C.D., Bagatin, R., Latini, A., Petrangeli Papini, M.
Adsorption of hydrocarbons from industrial wastewater onto a silica mesoporous material: Structural and thermal study
(2015) Microporous and Mesoporous Materials, 203 (C), pp. 139-150.

31. Latini, A., Panetta, R., Cavallo, C., Gozzi, D., Quaranta, S.
A comparison of the performances of different mesoporous titanias in dye-sensitized solar cells

(2015) Journal of Nanomaterials, 2015, art. no. 450405.

32. Rau, J.V., Cacciotti, I., Laureti, S., Fosca, M., Varvaro, G., Latini, A.
Bioactive, nanostructured Si-substituted hydroxyapatite coatings on titanium prepared by pulsed laser deposition
(2015) Journal of Biomedical Materials Research - Part B Applied Biomaterials, 103 (8), pp. 1621-1631.

33. Latini, A., Aldibaja, F.K., Cavallo, C., Gozzi, D.
Benzonitrile based electrolytes for best operation of dye sensitized solar cells
(2014) Journal of Power Sources, 269, pp. 308-316.

34. Latini, A., Tomellini, M., Lazzarini, L., Bertoni, G., Gazzoli, D., Bossa, L., Gozzi, D.
High temperature stability of onion-like carbon vs highly oriented pyrolytic graphite
(2014) PLoS ONE, 9 (8), art. no. e105788.

35. Rau, J.V., Cacciotti, I., De Bonis, A., Fosca, M., Komlev, V.S., Latini, A., Santagata, A., Teghil, R.
Fe-doped hydroxyapatite coatings for orthopedic and dental implant applications
(2014) Applied Surface Science, 307, pp. 301-305.

36. Latini, A., Cavallo, C., Aldibaja, F.K., Gozzi, D., Carta, D., Corrias, A., Lazzarini, L., Salviati, G.
Efficiency improvement of DSSC photoanode by scandium doping of mesoporous titania beads
(2013) Journal of Physical Chemistry C, 117 (48), pp. 25276-25289.

37. De Bonis, A., Santagata, A., Rau, J.V., Latini, A., Mori, T., Medici, L., Teghil, R.
Two-phase zirconium boride thin film obtained by ultra-short pulsed laser ablation of a ZrB 12 target
(2013) Applied Surface Science, 283, pp. 715-721.

38. Bernhard, R., Latini, A., Panero, S., Scrosati, B., Hassoun, J.
Poly(ethylenglycol)dimethylether-lithium bis(trifluoromethanesulfonyl) imide, PEG500DME-LiTFSI, as high viscosity electrolyte for lithium ion batteries
(2013) Journal of Power Sources, 226, pp. 329-333.

39. Latini, A., Genova, V., Steiner, J., Gozzi, D.
Thermodynamic properties of RE2Co17 intermetallics at high temperatures (RE = Pr, Nd, Gd, Tb, Dy, Ho, Er, Tm, Lu)
(2013) Journal of Chemical Thermodynamics, 57, pp. 461-469.

40. Quaranta, S., Gozzi, D., Tucci, M., Lazzarini, L., Latini, A.
Efficiency improvement and full characterization of dye-sensitized solar cells with MWCNT/anatase Schottky junctions
(2012) Journal of Power Sources, 204, pp. 249-256.

41. Hassoun, J., Agostini, M., Latini, A., Panero, S., Sun, Y.-K., Scrosati, B.
Nickel-layer protected, carbon-coated sulfur electrode for lithium battery
(2012) Journal of the Electrochemical Society, 159 (4), pp. A390-A395.

42. Rau, J.V., Latini, A., Teghil, R., De Bonis, A., Fosca, M., Caminiti, R., Rossi Albertini, V.
Superhard tungsten tetraboride films prepared by pulsed laser deposition method
(2011) ACS Applied Materials and Interfaces, 3 (9), pp. 3738-3743.

43. Latini, A., Gozzi, D., Ferraris, G., Lazzarini, L.
High temperature resistivity of dense mats of single-walled carbon nanotube bundles
(2011) Journal of Physical Chemistry C, 115 (22), pp. 11023-11029.

44. Falqui, A., Loche, D., Casula, M.F., Corrias, A., Gozzi, D., Latini, A.
Synthesis and characterization of multiwalled carbon Nanotube/FeCo nanocomposites

(2011) Journal of Nanoscience and Nanotechnology, 11 (3), pp. 2215-2225.

45. Gozzi, D., Tomellini, M., Lazzarini, L., Latini, A.
High-temperature determination of surface free energy of copper nanoparticles
(2010) Journal of Physical Chemistry C, 114 (28), pp. 12117-12124.

46. Latini, A., Rau, J.V., Teghil, R., Generosi, A., Albertini, V.R.
Superhard properties of rhodium and iridium boride films
(2010) ACS Applied Materials and Interfaces, 2 (2), pp. 581-587.

47. Scaramuzzo, F.A., Salvati, R., Paci, B., Generosi, A., Rossi-Albertini, V., Latini, A., Barteri, M.
Nanoscale in situ morphological study of proteins immobilized on gold thin films
(2009) Journal of Physical Chemistry B, 113 (48), pp. 15895-15899.

48. Gozzi, D., Latini, A., Lazzarini, L.
Experimental thermodynamics of high temperature transformations in single-walled carbon nanotube bundles
(2009) Journal of the American Chemical Society, 131 (34), pp. 12474-12482.

49. Rau, J.V., Latini, A.
New hard and superhard materials: RhB1.1 and IrB1.35
(2009) Chemistry of Materials, 21 (8), pp. 1407-1409.

50. Rau, J.V., Latini, A., Generosi, A., Rossi Albertini, V., Ferro, D., Teghil, R., Barinov, S.M.
Deposition and characterization of superhard biphasic ruthenium boride films
(2009) Acta Materialia, 57 (3), pp. 673-681.

51. Gozzi, D., Latini, A., Tomellini, M.
Thermodynamics of CVD Synthesis of multiwalled carbon nanotubes: a case study
(2009) Journal of Physical Chemistry C, 113 (1), pp. 45-53.

52. Rau, J.V., Ferro, D., Falcone, M.B., Generosi, A., Albertini, V.R., Latini, A., Teghil, R., Barinov, S.M.
Hardness of zirconium diboride films deposited on titanium substrates
(2008) Materials Chemistry and Physics, 112 (2), pp. 504-509.

53. Brunetti, B., Piacente, V., Latini, A., Scardala, P.
Vapor pressures and sublimation enthalpies of mercury(I, II) fluorides by the torsion-effusion method
(2008) Journal of Chemical and Engineering Data, 53 (11), pp. 2493-2495.

54. Gozzi, D., Latini, A., Carta, D., Corrias, A., Falqui, A., Mountjoy, G., Lazzarini, L., Salviati, G., Fiddy, S.G.
Lanthanide-doped scandia and yttria cathodoluminescent films: A comparative study
(2008) Chemistry of Materials, 20 (17), pp. 5666-5674.

55. Latini, A., Rau, J.V., Ferro, D., Teghil, R., Albertini, V.R., Barinov, S.M.
Superhard rhenium diboride films: Preparation and characterization
(2008) Chemistry of Materials, 20 (13), pp. 4507-4511.

56. Gozzi, D., Latini, A., Lazzarini, L.
Chemical differentiation of carbon nanotubes in a carbonaceous matrix
(2008) Chemistry of Materials, 20 (12), pp. 4126-4134.

57. Ferro, D., Rau, J.V., Generosi, A., Rossi Albertini, V., Latini, A., Barinov, S.M.
Electron beam deposited VC and NbC thin films on titanium: Hardness and energy-dispersive X-ray diffraction study
(2008) Surface and Coatings Technology, 202 (10), pp. 2162-2168.

58. Corrias, A., Mountjoy, G., Gozzi, D., Latini, A.
Multi-walled carbon nanotubes decorated with titanium nanoparticles: Synthesis and characterization
(2007) Nanotechnology, 18 (48), art. no. 485610.

59. Ferri, T., Gozzi, D., Latini, A.
Hydrogen evolution reaction (HER) at thin film and bulk TiC electrodes
(2007) International Journal of Hydrogen Energy, 32 (18), pp. 4692-4701.

60. Gozzi, D., Iervolino, M., Latini, A.
Thermodynamics of Fe-rich intermetallics along the rare earth series
(2007) Journal of Chemical and Engineering Data, 52 (6), pp. 2350-2358.

61. Gozzi, D., Iervolino, M., Latini, A.
The thermodynamics of the transformation of graphite to multiwalled carbon nanotubes
(2007) Journal of the American Chemical Society, 129 (33), pp. 10269-10275.

62. Brunetti, B., Gozzi, D., Iervolino, M., Latini, A., Piacente, V.
Thermodynamics of bismuth in the molten Ag-Bi-Sn system
(2007) Journal of Chemical and Engineering Data, 52 (4), pp. 1394-1400.

63. Tomellini, M., Gozzi, D., Latini, A.
Nanodusting of RENi5 intermetallic grains through nucleation and growth of carbon nanotubes (RE = Rare-Earth)
(2007) Journal of Physical Chemistry C, 111 (8), pp. 3266-3274.

64. Gozzi, D., Latini, A., Capannelli, G., Canepa, F., Napoletano, M., Cimberle, M.R., Tropeano, M.
Synthesis and magnetic characterization of Ni nanoparticles and Ni nanoparticles in multiwalled carbon nanotubes
(2006) Journal of Alloys and Compounds, 419 (1-2), pp. 32-39.

65. Gozzi, D., Latini, A., Salviati, G., Armani, N.
Growth and characterization of red-green-blue cathodoluminescent ceramic films
(2006) Journal of Applied Physics, 99 (12), art. no. 123524.

66. Gozzi, D., Iervolino, M., Latini, A., Bellucci, A.
Ni-Re intermetallic oxygen getters
(2006) Vacuum, 80 (8), pp. 930-938.

67. Ferro, D., Barinov, S.M., Rau, J.V., Latini, A., Scandurra, R., Brunetti, B.
Vickers and Knoop hardness of electron beam deposited ZrC and HfC thin films on titanium
(2006) Surface and Coatings Technology, 200 (16-17), pp. 4701-4707.

68. Ferro, D., Barinov, S.M., Rau, J.V., Teghil, R., Latini, A.
Calcium phosphate and fluorinated calcium phosphate coatings on titanium deposited by Nd:YAG laser at a high fluence
(2005) Biomaterials, 26 (7), pp. 805-812.

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Part XI– Patents

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