

Ghislaine Bertrand

List of Publications by Year in descending order

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38
papers

1,669
citations

257450

24
h-index

361022

35
g-index

38
all docs

38
docs citations

38
times ranked

1872
citing authors

#	ARTICLE	IF	CITATIONS
1	From Powders to Thermally Sprayed Coatings. <i>Journal of Thermal Spray Technology</i> , 2010, 19, 56-80.	3.1	181
2	Full potential investigations of structural and electronic properties of ZrSiO ₄ . <i>Microelectronic Engineering</i> , 2005, 81, 514-523.	2.4	145
3	Full potential calculation of structural, elastic and electronic properties of BaZrO ₃ and SrZrO ₃ . <i>Physica Status Solidi (B): Basic Research</i> , 2005, 242, 1054-1062.	1.5	123
4	Properties of reactively RF magnetron-sputtered chromium nitride coatings. <i>Surface and Coatings Technology</i> , 1997, 96, 323-329.	4.8	86
5	Low conductivity plasma sprayed thermal barrier coating using hollow psz spheres: Correlation between thermophysical properties and microstructure. <i>Surface and Coatings Technology</i> , 2008, 202, 1994-2001.	4.8	86
6	Microstructure and environmental functionalities of TiO ₂ -supported photocatalysts obtained by suspension plasma spraying. <i>Applied Catalysis B: Environmental</i> , 2006, 68, 74-84.	20.2	81
7	Comparative study on the photocatalytic decomposition of nitrogen oxides using TiO ₂ coatings prepared by conventional plasma spraying and suspension plasma spraying. <i>Surface and Coatings Technology</i> , 2006, 200, 5855-5862.	4.8	74
8	Comparison of the Photocatalytic Behavior of TiO ₂ Coatings Elaborated by Different Thermal Spraying Processes. <i>Journal of Thermal Spray Technology</i> , 2006, 15, 576-581.	3.1	62
9	First principles calculations of structural, elastic and electronic properties of XO ₂ (X=Zr, Hf and Th) in fluorite phase. <i>Computational Materials Science</i> , 2005, 33, 44-52.	3.0	60
10	Tetracycline-Loaded Biomimetic Apatite: An Adsorption Study. <i>Journal of Physical Chemistry B</i> , 2015, 119, 3014-3024.	2.6	60
11	Nanostructured Photocatalytic Titania Coatings Formed by Suspension Plasma Spraying. <i>Journal of Thermal Spray Technology</i> , 2006, 15, 587-592.	3.1	58
12	Spray drying and sintering of zirconia based hollow powders. <i>Powder Technology</i> , 2005, 157, 20-26.	4.2	57
13	Structural and electronic properties of zirconia phases: A FP-LAPW investigations. <i>Materials Science in Semiconductor Processing</i> , 2006, 9, 1006-1013.	4.0	55
14	Cubic-to-tetragonal phase transition of HfO ₂ from computational study. <i>Materials Letters</i> , 2008, 62, 1484-1486.	2.6	53
15	Suspension Plasma Spraying of YPSZ Coatings: Suspension Atomization and Injection. <i>Journal of Thermal Spray Technology</i> , 2008, 17, 105-114.	3.1	52
16	Neural computation to predict TiO ₂ photocatalytic efficiency for nitrogen oxides removal. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2004, 165, 91-96.	3.9	44
17	On the Origin of the Decay of the Photocatalytic Activity of TiO ₂ Powders Ground at High Energy. <i>Journal of Physical Chemistry C</i> , 2009, 113, 16589-16602.	3.1	41
18	Dense yttria-stabilized zirconia obtained by direct selective laser sintering. <i>Additive Manufacturing</i> , 2018, 21, 472-478.	3.0	41

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19	Full potential linearized augmented plane wave investigations of structural and electronic properties of pyrochlore systems. <i>Journal of Applied Physics</i> , 2004, 96, 6482-6487.	2.5	38
20	Microstructure and mechanical properties of plasma sprayed nanostructured TiO ₂ -Al composite coatings. <i>Surface and Coatings Technology</i> , 2005, 194, 215-224.	4.8	35
21	Development of Photocatalytic Active TiO ₂ Surfaces by Thermal Spraying of Nanopowders. <i>Journal of Nanomaterials</i> , 2008, 2008, 1-8.	2.7	32
22	Microstructure and photocatalytic properties of nanostructured TiO ₂ and TiO ₂ -Al coatings elaborated by HVOF spraying for the nitrogen oxides removal. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006, 417, 56-62.	5.6	30
23	Ab initio calculations of structural and electronic properties of Y ₂ Ti ₂ O ₇ and Cd ₂ Nb ₂ O ₇ . <i>Physica B: Condensed Matter</i> , 2007, 392, 341-347.	2.7	30
24	Optimizing Compliance and Thermal Conductivity of Plasma Sprayed Thermal Barrier Coatings via Controlled Powders and Processing Strategies. <i>Journal of Thermal Spray Technology</i> , 2012, 21, 950-962.	3.1	30
25	Effect of thermal treatment on the effective thermal conductivity of YPSZ coatings. <i>Surface and Coatings Technology</i> , 2010, 205, 1034-1038.	4.8	22
26	APS Deposition of MnCo ₂ O ₄ on Commercial Alloys K41X used as Solid Oxide Fuel Cell Interconnect: The Importance of Post Heat-treatment for Densification of the Protective Layer. <i>ECS Transactions</i> , 2009, 25, 1397-1402.	0.5	15
27	Comparison of Physical-chemical and Mechanical Properties of Chlorapatite and Hydroxyapatite Plasma Sprayed Coatings. <i>Open Biomedical Engineering Journal</i> , 2015, 9, 42-55.	0.5	15
28	Electrodeposition of HAp coatings on Ti6Al4V alloy and its electrochemical behavior in simulated body fluid solution. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , 2016, 7, 025008.	1.5	13
29	First Cold Spraying of Carbonated Biomimetic Nanocrystalline Apatite on Ti6Al4V: Physical-Chemical, Microstructural, and Preliminary Mechanical Characterizations. <i>Advanced Engineering Materials</i> , 2016, 18, 496-500.	3.5	12
30	Thermal properties of Ba _{1-x} Sr _x ZrO ₃ compounds from microscopic theory. <i>Journal of Alloys and Compounds</i> , 2008, 456, 508-513.	5.5	11
31	Electrodeposition and Characterization of Hydroxyapatite on TiN/316LSS. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 9991-10001.	0.9	10
32	Composite Drug Delivery System Based on Amorphous Calcium Phosphate-Chitosan: An Efficient Antimicrobial Platform for Extended Release of Tetracycline. <i>Pharmaceutics</i> , 2021, 13, 1659.	4.5	5
33	Simulation of thermal properties of Ba _{1-x} ZrO ₃ compounds for thermal barrier coating applications. <i>Computational Materials Science</i> , 2008, 42, 416-420.	3.0	4
34	Suspension Plasma Spraying to Manufacture Electrodes for Solid Oxide Fuel Cell (SOFC) and Solid Oxide Electrolysis Cell (SOEC). <i>ECS Transactions</i> , 2009, 25, 585-594.	0.5	4
35	Cold Spraying of Thick Biomimetic and Stoichiometric Apatite Coatings for Orthopaedic Implants. <i>Coatings</i> , 2022, 12, 722.	2.6	3
36	Further Improvement of the Properties of Sprayed TBC Using Hollow PSZ Spheres. <i>Ceramic Engineering and Science Proceedings</i> , 0, , 389-398.	0.1	1

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37	Environmental Applications of the Reactive Titania Coatings Elaborated by Suspension Plasma Spraying. <i>Advances in Science and Technology</i> , 2006, 45, 2182-2187.	0.2	0
38	Revêtements d'hydroxyapatite réalisés par projection plasma: vers de nouvelles fonctionnalités. <i>MATEC Web of Conferences</i> , 2013, 7, 04021.	0.2	0