

# Mingwen Bai

## List of Publications by Year in descending order

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42  
papers

1,199  
citations

471061

17  
h-index

377514

34  
g-index

45  
all docs

45  
docs citations

45  
times ranked

1377  
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic Pickering Emulsions Stabilized by Fe <sub>3</sub> O <sub>4</sub> Nanoparticles. Langmuir, 2011, 27, 3308-3316.	1.6	242
2	Ablation-resistant carbide Zr <sub>0.8</sub> Ti <sub>0.2</sub> Co <sub>0.74</sub> B <sub>0.26</sub> for oxidizing environments up to 3,000°C. Nature Communications, 2017, 8, 15836.	5.8	154
3	A mechanistic understanding on rumpling of a NiCoCrAlY bond coat for thermal barrier coating applications. Acta Materialia, 2017, 128, 31-42.	3.8	93
4	An investigation of diffusion-mediated cyclic coarsening and reversal coarsening in an advanced Ni-based superalloy. Acta Materialia, 2016, 110, 295-305.	3.8	69
5	Experimental and thermodynamic investigations on the chlorine-induced corrosion of HVOF thermal sprayed NiAl coatings and 304 stainless steels at 700°C. Corrosion Science, 2018, 135, 147-157.	3.0	58
6	Effect of platinum addition on oxidation behaviour of $\gamma/\gamma_2$ nickel aluminide. Acta Materialia, 2015, 86, 319-330.	3.8	42
7	Microstructure and phase stability of suspension high velocity oxy-fuel sprayed yttria stabilised zirconia coatings from aqueous and ethanol based suspensions. Journal of the European Ceramic Society, 2018, 38, 1878-1887.	2.8	40
8	Robust Hydrophobic Surfaces from Suspension HVOF Thermal Sprayed Rare-Earth Oxide Ceramics Coatings. Scientific Reports, 2018, 8, 6973.	1.6	37
9	Preparation of MCrAlY-Al <sub>2</sub> O <sub>3</sub> Composite Coatings with Enhanced Oxidation Resistance through a Novel Powder Manufacturing Process. Journal of Thermal Spray Technology, 2019, 28, 433-443.	1.6	32
10	Effect of Particle and Carbide Grain Sizes on a HVOAF WC-Co-Cr Coating for the Future Application on Internal Surfaces: Microstructure and Wear. Journal of Thermal Spray Technology, 2018, 27, 207-219.	1.6	29
11	In-situ Ti-6Al-4V/TiC composites synthesized by reactive spark plasma sintering: processing, microstructure, and dry sliding wear behaviour. Wear, 2019, 432-433, 202944.	1.5	28
12	Omnidirectional light absorption of disordered nano-hole structure inspired from Papilio ulysses. Optics Letters, 2014, 39, 4208.	1.7	23
13	Laser Clad and HVOF-Sprayed Stellite 6 Coating in Chlorine-Rich Environment with KCl at 700°C. Oxidation of Metals, 2017, 88, 749-771.	1.0	23
14	Fabrication of thick YSZ thermal barrier coatings using electrophoretic deposition. Ceramics International, 2014, 40, 16611-16616.	2.3	21
15	A prominent driving force for the spallation of thermal barrier coatings: Chemistry dependent phase transformation of the bond coat. Acta Materialia, 2017, 137, 22-35.	3.8	19
16	Investigation on time-dependent wetting behavior of Ni-Cu-P ternary coating. Journal of Alloys and Compounds, 2018, 765, 221-228.	2.8	19
17	High-Entropy Coatings (HEC) for High-Temperature Applications: Materials, Processing, and Properties. Coatings, 2022, 12, 691.	1.2	19
18	Effect of ZrB <sub>2</sub> powders on densification, microstructure, mechanical properties and thermal conductivity of ZrB <sub>2</sub> -SiC ceramics. Ceramics International, 2021, 47, 15843-15848.	2.3	18

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19	Mechanical and tribological properties of Si and W doped diamond like carbon (DLC) under dry reciprocating sliding conditions. <i>Wear</i> , 2021, 484-485, 204046.	1.5	18
20	Migration of sulphur in thermal barrier coatings during heat treatment. <i>Materials and Design</i> , 2016, 97, 364-371.	3.3	17
21	Suspension high velocity oxy-fuel spraying of a rutile TiO <sub>2</sub> feedstock: Microstructure, phase evolution and photocatalytic behaviour. <i>Ceramics International</i> , 2017, 43, 15288-15295.	2.3	17
22	Evolution of porosity in suspension thermal sprayed YSZ thermal barrier coatings through neutron scattering and image analysis techniques. <i>Journal of the European Ceramic Society</i> , 2021, 41, 6035-6048.	2.8	17
23	A study on the effect of nano-CeO <sub>2</sub> dispersion on the characteristics of thermally-grown oxide (TGO) formed on NiCoCrAlY powders and coatings during isothermal oxidation. <i>Journal of Alloys and Compounds</i> , 2020, 835, 155319.	2.8	16
24	The Al-enriched $\text{Ti}^{\text{TM}}$ -Ni <sub>3</sub> Al-base bond coat for thermal barrier coating applications. <i>Corrosion Science</i> , 2020, 167, 108523.	3.0	15
25	Characterisation of microstructure and hardness of perovskite-structured Ba <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3</sub> under different sintering conditions. <i>Journal of the European Ceramic Society</i> , 2016, 36, 1659-1667.	2.8	14
26	Magnetorheological Behavior of Polyethylene Glycol-Coated Fe <sub>3</sub> O <sub>4</sub> Ferrofluids. <i>Nihon Reoroji Gakkaishi</i> , 2010, 38, 23-30.	0.2	13
27	Experimental investigations on the chlorine-induced corrosion of HVOF thermal sprayed Stellite-6 and NiAl coatings with fluidised bed biomass/anthracite combustion systems. <i>Fuel</i> , 2021, 288, 119607.	3.4	13
28	Role of Oxides and Porosity on High-Temperature Oxidation of Liquid-Fueled HVOF Thermal-Sprayed Ni <sub>50</sub> Cr Coatings. <i>Journal of Thermal Spray Technology</i> , 2017, 26, 554-568.	1.6	12
29	Correlation between the formation of tribofilm and repassivation in biomedical titanium alloys during tribocorrosion. <i>Tribology International</i> , 2021, 163, 107147.	3.0	11
30	Residual Stress Measurement of Suspension HVOF-Sprayed Alumina Coating via a Hole-Drilling Method. <i>Journal of Thermal Spray Technology</i> , 2020, 29, 1339-1350.	1.6	10
31	Fracture strength and Weibull analysis of Ba <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3</sub> oxygen transport membranes evaluated by biaxial and uniaxial bending tests. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 670, 292-299.	2.6	9
32	Small punch creep testing of thermally sprayed Stellite 6 coating: A comparative study of as-received vs post-heat treatment. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 749, 137-147.	2.6	8
33	A case study of mechanical properties of perovskite-structured Ba <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3</sub> oxygen transport membrane. <i>Journal of the European Ceramic Society</i> , 2018, 38, 647-653.	2.8	7
34	A Review on In Situ Mechanical Testing of Coatings. <i>Coatings</i> , 2022, 12, 299.	1.2	7
35	Microstructure and mechanical properties of Ba <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3</sub> perovskite-structured oxides doped with different contents of Ni. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 658, 280-288.	2.6	6
36	Self-healing WS <sub>2</sub> tribofilms: An in-situ appraisal of mechanisms. <i>Scripta Materialia</i> , 2021, 204, 114124.	2.6	6

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37	Investigations on the Diffusion of Platinum between CMSX-4 Superalloy and Platinum-Enriched Bond Coat. Coatings, 2021, 11, 441.	1.2	5
38	Microtexture Analysis of the Alumina Scale in Thermal Barrier Coatings. Journal of the American Ceramic Society, 2015, 98, 3639-3642.	1.9	3
39	A case study of the effect of Ni substitution on the sintering behaviours of $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_{3-\lambda}$ oxygen transport membranes. Advances in Applied Ceramics, 2018, 117, 269-278.	0.6	3
40	Subcritical crack growth behavior of a perovskite-structured $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_{3-\lambda}$ oxygen transport membrane. International Journal of Applied Ceramic Technology, 2018, 15, 63-73.	1.1	3
41	Mitigation of Platinum Depletion in Platinum Diffused Single Phase Bond Coat on CMSX-4 Superalloy. Coatings, 2021, 11, 669.	1.2	1
42	Predicting grain size distributions in perovskite-structured $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_{3-\lambda}$ oxygen transport membranes. Advances in Applied Ceramics, 2018, 117, 354-360.	0.6	0