

# Kadir Mert Doleker

## List of Publications by Year in descending order

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39  
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docs citations

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times ranked

552  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hot corrosion behavior of YSZ, Gd <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> and YSZ/Gd <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> thermal barrier coatings exposed to molten sulfate and vanadate salt. <i>Applied Surface Science</i> , 2018, 438, 96-113.	6.1	102
2	Comparison of tribological properties of HVOF sprayed coatings with different composition. <i>Surface and Coatings Technology</i> , 2017, 318, 299-308.	4.8	87
3	Effect of shot peening on the oxidation behavior of thermal barrier coatings. <i>Applied Surface Science</i> , 2015, 354, 314-322.	6.1	83
4	Comparison of oxidation behavior of YSZ and Gd <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> thermal barrier coatings (TBCs). <i>Surface and Coatings Technology</i> , 2017, 318, 198-207.	4.8	74
5	Isothermal oxidation and thermal cyclic behaviors of YSZ and double-layered YSZ/La <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> thermal barrier coatings (TBCs). <i>Surface and Coatings Technology</i> , 2018, 351, 78-88.	4.8	71
6	Evaluation of oxidation and thermal cyclic behavior of YSZ, Gd <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> and YSZ/Gd <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> TBCs. <i>Surface and Coatings Technology</i> , 2019, 371, 262-275.	4.8	67
7	TGO growth and kinetic study of single and double layered TBC systems. <i>Surface and Coatings Technology</i> , 2021, 415, 127135.	4.8	56
8	Interface failure behavior of yttria stabilized zirconia (YSZ), La <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> , Gd <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> , YSZ/La <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> and YSZ/Gd <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> thermal barrier coatings (TBCs) in thermal cyclic exposure. <i>Materials Characterization</i> , 2020, 159, 110072.	4.4	54
9	Comparison of microstructure and oxidation behavior of CoNiCrAlY coatings produced by APS, SSAPS, D-gun, HVOF and CGDS techniques. <i>Vacuum</i> , 2020, 180, 109609.	3.5	51
10	Effect of laser re-melting on electric current assistive sintered CoCrFeNiAlxTi <sub>y</sub> high entropy alloys: Formation, micro-hardness and wear behaviors. <i>Surface and Coatings Technology</i> , 2020, 399, 126179.	4.8	48
11	Investigation of calcium-magnesium-alumino-silicate (CMAS) resistance and hot corrosion behavior of YSZ and La <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> /YSZ thermal barrier coatings (TBCs) produced with CGDS method. <i>Surface and Coatings Technology</i> , 2021, 411, 126969.	4.8	48
12	Characteristics, high temperature wear and oxidation behavior of boride layer grown on nimonic 80A Ni-based superalloy. <i>Surface and Coatings Technology</i> , 2021, 409, 126906.	4.8	45
13	Microstructure, wear and oxidation behavior of AlCrFeNiX (X = Cu, Si, Co) high entropy alloys produced by powder metallurgy. <i>Vacuum</i> , 2021, 187, 110143.	3.5	45
14	Performance of single YSZ, Gd <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> and double-layered YSZ/Gd <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> thermal barrier coatings in isothermal oxidation test conditions. <i>Vacuum</i> , 2020, 177, 109401.	3.5	44
15	Oxidation and hot corrosion resistance of HVOF/EB-PVD thermal barrier coating system. <i>Surface and Coatings Technology</i> , 2021, 409, 126862.	4.8	44
16	Effect of Al and Ti on High-Temperature Oxidation Behavior of CoCrFeNi-Based High-Entropy Alloys. <i>Jom</i> , 2019, 71, 3499-3510.	1.9	40
17	Cyclic Hot Corrosion Failure Behaviors of EB-PVD TBC Systems in the Presence of Sulfate and Vanadate Molten Salts. <i>Coatings</i> , 2019, 9, 166.	2.6	39
18	Investigation of Isothermal Oxidation Behavior of Thermal Barrier Coatings (TBCs) Consisting of YSZ and Multilayered YSZ/Gd <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> Ceramic Layers. <i>Oxidation of Metals</i> , 2017, 88, 109-119.	2.1	34

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19	Enhancing the wear and oxidation behaviors of the Inconel 718 by low temperature aluminizing. Surface and Coatings Technology, 2021, 412, 127069.	4.8	34
20	Laser re-melting influence on isothermal oxidation behavior of electric current assisted sintered CoCrFeNi, CoCrFeNiAl <sub>0.5</sub> and CoCrFeNiTi <sub>0.5</sub> Al <sub>0.5</sub> high entropy alloys. Surface and Coatings Technology, 2021, 407, 126775.	4.8	29
21	Effect of high temperature oxidation on Inconel 718/YSZ/Gd <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> . Materials Research Express, 2019, 6, 086456.	1.6	24
22	The Examination of Microstructure and Thermal Oxidation Behavior of Laser-Remelted High-Velocity Oxygen Liquid Fuel Fe/Al Coating. Journal of Materials Engineering and Performance, 2020, 29, 3220-3232.	2.5	21
23	Comparison of Oxidation Behavior of Shot-Peened Plasma Spray Coatings with Cold Gas Dynamic Spray Coatings. Oxidation of Metals, 2017, 88, 121-132.	2.1	18
24	State of the Art Thermal Barrier Coating (TBC) Materials and TBC Failure Mechanisms. Advanced Structured Materials, 2017, , 441-452.	0.5	18
25	Oxidation Behavior of NiCr/YSZ Thermal Barrier Coatings (TBCs). Open Chemistry, 2018, 16, 876-881.	1.9	18
26	Investigation of the effect of V <sub>2</sub> O <sub>5</sub> and Na <sub>2</sub> SO <sub>4</sub> melted salts on thermal barrier coatings under cyclic conditions. Anti-Corrosion Methods and Materials, 2019, 66, 644-650.	1.5	18
27	Low-temperature aluminizing influence on degradation of nimonic 80A surface: Microstructure, wear and high temperature oxidation behaviors. Surfaces and Interfaces, 2021, 25, 101240.	3.0	15
28	The Microstructural Investigation of Vermiculite-Infiltrated Electron Beam Physical Vapor Deposition Thermal Barrier Coatings. Open Chemistry, 2018, 16, 1106-1110.	1.9	14
29	Comparative study on dry sliding wear and oxidation performance of HVOF and laser re-melted Al <sub>0.2</sub> CrFeNi(Co,Cu) alloys. Transactions of Nonferrous Metals Society of China, 2021, 31, 2428-2441.	4.2	14
30	Isothermal Oxidation Behavior of Gadolinium Zirconate (Gd <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> ) Thermal Barrier Coatings (TBCs) produced by Electron Beam Physical Vapor Deposition (EB-PVD) technique. Open Chemistry, 2018, 16, 986-991.	1.9	13
31	Investigation of hot corrosion behavior of thermal barrier coating (TBC) systems with rare earth contents. Arabian Journal of Geosciences, 2018, 11, 1.	1.3	12
32	High temperature oxidation behavior of low temperature aluminized Mirrax <sup>®</sup> ESR steel. Materials Research Express, 2019, 6, 116407.	1.6	11
33	Wear and oxidation performances of low temperature aluminized IN600. Surface and Coatings Technology, 2022, 436, 128295.	4.8	10
34	The influence of Al addition and aluminizing process on oxidation performance of arc melted CoCrFeNi alloy. Vacuum, 2022, 196, 110749.	3.5	9
35	Formation and Growth Behaviour of Thermally Grown Oxide Layer in Thermal Barrier Coatings with HVOF Sprayed Nickel-Chromium Bond Coats. Emerging Materials Research, 2020, 9, 1-8.	0.7	8
36	Evaluation of Hot Corrosion Behavior of APS and HVOF Sprayed Thermal Barrier Coatings (TBCs) Exposed to Molten Na <sub>2</sub> SO <sub>4</sub> +V <sub>2</sub> O <sub>5</sub> Salt at 1000°C. Advanced Structured Materials, 2019, , 441-459.	0.5	7

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37	ZrO <sub>2</sub> -5%CaO TERMAL BARÄ°YER KAPLAMA (TBC) SÄ°STEMÄ°NÄ°N SICAK KOROZYON DÄ°RENCÄ°. El-Cezeri Journal of Science and Engineering, 0, , .	0.1	1
38	904L Paslanmaz Ä°eliÄ°ye DÄ°¼Ä°¼Ä°¼k SÄ°caklÄ°k AlÄ°¼minyumlamamanÄ°n Etkisi. European Journal of Science and Technology, 0, , .	0.5	1
39	Ä°tevrimli ve Ä°zotermal SÄ°cak Korozyonun Nikel EsaslÄ° SÄ°¼per AlaÄ°¼m Malzemeye Etkisi. El-Cezeri Journal of Science and Engineering, 0, , .	0.1	0