

Vishi Singh

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

485
citations

623734

14
h-index

677142

22
g-index

27
all docs

27
docs citations

27
times ranked

353
citing authors

#	ARTICLE	IF	CITATIONS
1	Dye degradation and bacterial disinfection using multicatalytic BaZr _{0.02} Ti _{0.98} O ₃ ceramics. Journal of the American Ceramic Society, 2020, 103, 4774-4784.	3.8	61
2	Photocatalytic, piezocatalytic, and piezo-photocatalytic effects in ferroelectric (Ba _{0.875} Ca _{0.125})(Ti _{0.95} Sn _{0.05})O ₃ ceramics. Journal of the American Ceramic Society, 2019, 102, 5807-5817.	3.8	54
3	Multicatalytic behavior of Ba _{0.85} Ca _{0.15} Ti _{0.9} Zr _{0.1} O ₃ ceramics for pharmaceutical/dye/bacterial treatments. Journal of Applied Physics, 2020, 127, .	2.5	50
4	Piezoelectric material selection for transducers under fuzzy environment. Journal of Advanced Ceramics, 2013, 2, 141-148.	17.4	41
5	Piezoelectric and Pyroelectric Materials Selection. International Journal of Applied Ceramic Technology, 2013, 10, 682-689.	2.1	26
6	Selection of Lead-Free Piezoelectric Ceramics. International Journal of Applied Ceramic Technology, 2014, 11, 883-893.	2.1	25
7	Diesel soot coated non-woven fabric for oil-water separation and adsorption applications. Scientific Reports, 2019, 9, 8503.	3.3	25
8	Adsorption of dyes onto candle soot: Equilibrium, kinetics and thermodynamics. European Physical Journal Plus, 2018, 133, 1.	2.6	24
9	Candle soot coated polyurethane foam as an adsorbent for removal of organic pollutants from water. European Physical Journal Plus, 2019, 134, 1.	2.6	21
10	Enhanced dye adsorption and rapid photocatalysis of candle soot coated BaTiO ₃ ceramics. Materials Chemistry and Physics, 2020, 252, 123311.	4.0	20
11	Multifunctional diesel exhaust emission soot coated sponge for water treatment. Environmental Science and Pollution Research, 2019, 26, 8148-8156.	5.3	18
12	A reduced graphene oxide/bismuth vanadate composite as an efficient piezocatalyst for degradation of organic dye. Materials Advances, 2021, 2, 4093-4101.	5.4	18
13	Promising multicatalytic and adsorption capabilities in V ₂ O ₅ /BiVO ₄ composite pellets for water-cleaning application. Surfaces and Interfaces, 2021, 23, 100924.	3.0	17
14	Finite Element Study on Performance of Piezoelectric Bimorph Cantilevers Using Porous/Ceramic BaTiO_3 Polymer Composites. Journal of Electronic Materials, 2018, 47, 233-241.	2.2	16
15	Sonophotocatalytic Dye Degradation Using rGO-BiVO ₄ Composites. Global Challenges, 2022, 6, .	3.6	16
16	Cement-based diesel exhaust emission soot coatings for the removal of organic pollutants from water. Construction and Building Materials, 2020, 234, 117377.	7.2	15
17	Effect of Porosity on Energy Harvesting Performance of 0.5Ba(Ca _{0.8} Zr _{0.2})O ₃ -0.5(Ba _{0.7} Ca _{0.3})TiO ₃ Ceramics: A Numerical Study. Energy Technology, 2020, 8, 1901302.	1.23	12
18	Photocatalytic dye degradation using BiVO ₄ paint composite coatings. Materials Advances, 2022, 3, 5796-5806.	5.4	7

#	ARTICLE	IF	CITATIONS
19	Waste Paper Pulp Derived Reduced Graphene Oxide for Antimicrobial Cement Composites. Journal of Electronic Materials, 2018, 47, 6862-6867.	2.2	6
20	Demonstrating a Rice-Husk-Based Adsorption Process Using Smartphone Colorimetry to Teach Students about Kinetic Models and Their Applications. Journal of Chemical Education, 0, , .	2.3	5
21	Effective properties and sensing capabilities of cement-based porous piezocomposites: a comparative study. European Physical Journal Plus, 2021, 136, 1.	2.6	3
22	Numerical investigation of sensing and energy harvesting performance of 0-3 and triply periodic minimal surface-based $K_{0.475}Na_{0.475}Li_{0.05}(Nb_{0.92}Ta_{0.05}Sb_{0.03})O_3$ and polyethylene piezocomposite: A comparative study. Journal of Intelligent Material Systems and Structures, 0, , 1045389X21110639.	2.5	2
23	Effect of sintering temperature on sensing, actuation and energy harvesting performance of $(Ba_{0.85}Ca_{0.15})(Ti_{0.9}Zr_{0.1})O_3$ ceramics: A numerical and simulation based study. Engineering Research Express, 2021, 3, 025018.	1.6	1
24	Improved piezoelectric performance of $0.965(K_{0.48}Na_{0.52})(Nb_{0.96}Sb_{0.04})O_3 \hat{a}^{\sim} 0.035Bi_{0.5}Na_{0.5}Zr_{0.15}Hf_{0.75}O_3$ piezocomposites using inherently auxetic polyethylene matrix. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	1
25	Non-woven fabric coated with candle soot for water remediation. Journal of the Australian Ceramic Society, 2022, 58, 617-625.	1.9	1
26	Characterization of the piezoelectric lead zirconate titanate catalyzed degradation of rhodamine B and methylene blue dyes by smartphone-based colorimetry. Instrumentation Science and Technology, 0, , 1-10.	1.8	0
27	An optimization study on $(B_{0.85}C_{0.15})_{\left(Zr_{0.1}T_{0.9}\right)O_3}$ -based piezoelectric energy-harvester using finite element method. Journal of the Australian Ceramic Society, 2022, 58, 309-319.	1.9	0