

Sami Rtimi

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135
papers

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144
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L-index

#	Paper	IF	Citations
135	Piezoelectric materials for catalytic/photocatalytic removal of pollutants: Recent advances and outlook. <i>Applied Catalysis B: Environmental</i> , 2019 , 241, 256-269	21.8	229
134	Iron oxide-mediated semiconductor photocatalysis vs. heterogeneous photo-Fenton treatment of viruses in wastewater. Impact of the oxide particle size. <i>Journal of Hazardous Materials</i> , 2017 , 339, 223-231	21.8	85
133	A green solar photo-Fenton process for the elimination of bacteria and micropollutants in municipal wastewater treatment using mineral iron and natural organic acids. <i>Applied Catalysis B: Environmental</i> , 2017 , 219, 538-549	21.8	75
132	Light-Assisted Advanced Oxidation Processes for the Elimination of Chemical and Microbiological Pollution of Wastewaters in Developed and Developing Countries. <i>Molecules</i> , 2017 , 22,	4.8	70
131	Advances in catalytic/photocatalytic bacterial inactivation by nano Ag and Cu coated surfaces and medical devices. <i>Applied Catalysis B: Environmental</i> , 2019 , 240, 291-318	21.8	65
130	Effect of Fe(II)/Fe(III) species, pH, irradiance and bacterial presence on viral inactivation in wastewater by the photo-Fenton process: Kinetic modeling and mechanistic interpretation. <i>Applied Catalysis B: Environmental</i> , 2017 , 204, 156-166	21.8	65
129	Mechanisms and adsorption capacities of biochar for the removal of organic and inorganic pollutants from industrial wastewater. <i>International Journal of Environmental Science and Technology</i> , 2021 , 18, 3273-3294	3.3	64
128	Bacterial disinfection by the photo-Fenton process: Extracellular oxidation or intracellular photo-catalysis?. <i>Applied Catalysis B: Environmental</i> , 2018 , 227, 285-295	21.8	62
127	Study of a photocatalytic process for removal of antibiotics from wastewater in a falling film photoreactor: Scavenger study and process intensification feasibility. <i>Chemical Engineering and Processing: Process Intensification</i> , 2017 , 122, 213-221	3.7	61
126	Magnetically separable TiO ₂ /FeO _x /POM accelerating the photocatalytic removal of the emerging endocrine disruptor: 2,4-dichlorophenol. <i>Applied Catalysis B: Environmental</i> , 2019 , 254, 66-75	21.8	61
125	Growth of TiO ₂ /Cu films by HiPIMS for accelerated bacterial loss of viability. <i>Surface and Coatings Technology</i> , 2013 , 232, 804-813	4.4	60
124	Kinetics and mechanism for transparent polyethylene-TiO ₂ films mediated self-cleaning leading to MB dye discoloration under sunlight irradiation. <i>Applied Catalysis B: Environmental</i> , 2015 , 162, 236-244	21.8	59
123	Preparation and Mechanism of Cu-Decorated TiO ₂ -ZrO ₂ Films Showing Accelerated Bacterial Inactivation. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 12832-9	9.5	59
122	TiON and TiON-Ag sputtered surfaces leading to bacterial inactivation under indoor actinic light. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2013 , 256, 52-63	4.7	50
121	FeO _x magnetization enhancing E. coli inactivation by orders of magnitude on Ag-TiO ₂ nanotubes under sunlight. <i>Applied Catalysis B: Environmental</i> , 2017 , 202, 438-445	21.8	49
120	Innovative TiO ₂ /Cu nanosurfaces inactivating bacteria in the minute range under low-intensity actinic light. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 5234-40	9.5	48
119	Study of synergetic effect, catalytic poisoning and regeneration using dielectric barrier discharge and photocatalysis in a continuous reactor: Abatement of pollutants in air mixture system. <i>Applied Catalysis B: Environmental</i> , 2017 , 213, 53-61	21.8	47

118	Recent progress in black phosphorus nanostructures as environmental photocatalysts. <i>Chemical Engineering Journal</i> , 2020 , 379, 122297	14.7	45
117	Effect of the spectral properties of TiO ₂ , Cu, TiO ₂ /Cu sputtered films on the bacterial inactivation under low intensity actinic light. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2013 , 251, 50-56	4.7	43
116	Microstructure of Cu-Ag Uniform Nanoparticulate Films on Polyurethane 3D Catheters: Surface Properties. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 56-63	9.5	42
115	Castles fall from inside: Evidence for dominant internal photo-catalytic mechanisms during treatment of <i>Saccharomyces cerevisiae</i> by photo-Fenton at near-neutral pH. <i>Applied Catalysis B: Environmental</i> , 2016 , 185, 150-162	21.8	42
114	Bacterial adhesion and inactivation on Ag decorated TiO-nanotubes under visible light: Effect of the nanotubes geometry on the photocatalytic activity. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018 , 170, 92-98	6	41
113	Innovative transparent non-scattering TiO ₂ bactericide thin films inducing increased <i>E. coli</i> cell wall fluidity. <i>Surface and Coatings Technology</i> , 2014 , 254, 333-343	4.4	41
112	Synchronic coupling of Cu ₂ O(p)/CuO(n) semiconductors leading to Norfloxacin degradation under visible light: Kinetics, mechanism and film surface properties. <i>Journal of Catalysis</i> , 2017 , 353, 133-140	7.3	41
111	Photocatalytic indoor/outdoor air treatment and bacterial inactivation on Cu _x O/TiO ₂ prepared by HiPIMS on polyester cloth under low intensity visible light. <i>Applied Catalysis B: Environmental</i> , 2019 , 259, 118074	21.8	40
110	Abatement of ammonia and butyraldehyde under non-thermal plasma and photocatalysis: Oxidation processes for the removal of mixture pollutants at pilot scale. <i>Chemical Engineering Journal</i> , 2018 , 344, 165-172	14.7	39
109	Polystyrene CuO/Cu ₂ O uniform films inducing MB-degradation under sunlight. <i>Catalysis Today</i> , 2017 , 284, 77-83	5.3	39
108	Quantification of the local magnetized nanotube domains accelerating the photocatalytic removal of the emerging pollutant tetracycline. <i>Applied Catalysis B: Environmental</i> , 2019 , 248, 450-458	21.8	39
107	Supported TiO ₂ films deposited at different energies: Implications of the surface compactness on the catalytic kinetics.. <i>Applied Catalysis B: Environmental</i> , 2016 , 191, 42-52	21.8	38
106	New evidence for TiO ₂ uniform surfaces leading to complete bacterial reduction in the dark: critical issues. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014 , 123, 593-9	6	36
105	Emerging technologies for the recovery of rare earth elements (REEs) from the end-of-life electronic wastes: a review on progress, challenges, and perspectives. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 36052-36074	5.1	35
104	Insight on the photocatalytic bacterial inactivation by co-sputtered TiO ₂ /Cu in aerobic and anaerobic conditions. <i>Applied Catalysis B: Environmental</i> , 2016 , 182, 277-285	21.8	35
103	Synergistic Effect of Fluorinated and N Doped TiO ₂ Nanoparticles Leading to Different Microstructure and Enhanced Photocatalytic Bacterial Inactivation. <i>Nanomaterials</i> , 2017 , 7,	5.4	35
102	Quasi-Instantaneous Bacterial Inactivation on Cu-Ag Nanoparticulate 3D Catheters in the Dark and Under Light: Mechanism and Dynamics. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 47-55	9.5	34
101	Solar light and the photo-Fenton process against antibiotic resistant bacteria in wastewater: A kinetic study with a Streptomycin-resistant strain. <i>Catalysis Today</i> , 2018 , 313, 86-93	5.3	33

100	Evidence for a dual mechanism in the TiO ₂ /Cu _x O photocatalyst during the degradation of sulfamethazine under solar or visible light: Critical issues. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019 , 375, 270-279	4.7	33
99	Evidence for the degradation of an emerging pollutant by a mechanism involving iso-energetic charge transfer under visible light. <i>Applied Catalysis B: Environmental</i> , 2018 , 233, 175-183	21.8	32
98	ZrNO ₃ /Ag co-sputtered surfaces leading to E. coli inactivation under actinic light: Evidence for the oligodynamic effect. <i>Applied Catalysis B: Environmental</i> , 2013 , 138-139, 113-121	21.8	31
97	Innovative semi-transparent nanocomposite films presenting photo-switchable behavior and leading to a reduction of the risk of infection under sunlight. <i>RSC Advances</i> , 2013 , 3, 16345	3.7	31
96	RF-plasma pretreatment of surfaces leading to TiO ₂ coatings with improved optical absorption and OH-radical production. <i>Applied Catalysis B: Environmental</i> , 2013 , 130-131, 65-72	21.8	31
95	Photocatalysis/catalysis by innovative TiN and TiN-Ag surfaces inactivate bacteria under visible light. <i>Applied Catalysis B: Environmental</i> , 2012 , 123-124, 306-315	21.8	31
94	Effect of surface pretreatment of TiO ₂ films on interfacial processes leading to bacterial inactivation in the dark and under light irradiation. <i>Interface Focus</i> , 2015 , 5, 20140046	3.9	30
93	In Vitro and In Vivo Effectiveness of an Innovative Silver-Copper Nanoparticle Coating of Catheters To Prevent Methicillin-Resistant Staphylococcus aureus Infection. <i>Antimicrobial Agents and Chemotherapy</i> , 2016 , 60, 5349-56	5.9	30
92	Reactive species monitoring and their contribution for removal of textile effluent with photocatalysis under UV and visible lights: Dynamics and mechanism. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018 , 365, 94-102	4.7	28
91	Synthesis and characterization of fluorinated anatase nanoparticles and subsequent N-doping for efficient visible light activated photocatalysis. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018 , 171, 445-450	6	27
90	Coupling of narrow and wide band-gap semiconductors on uniform films active in bacterial disinfection under low intensity visible light: implications of the interfacial charge transfer (IFCT). <i>Journal of Hazardous Materials</i> , 2013 , 260, 860-8	12.8	27
89	Indoor Light Enhanced Photocatalytic Ultra-Thin Films on Flexible Non-Heat Resistant Substrates Reducing Bacterial Infection Risks. <i>Catalysts</i> , 2017 , 7, 57	4	27
88	Emerging technologies for biofuel production: A critical review on recent progress, challenges and perspectives. <i>Journal of Environmental Management</i> , 2021 , 290, 112627	7.9	27
87	New evidence for hybrid acrylic/TiO ₂ films inducing bacterial inactivation under low intensity simulated sunlight. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015 , 135, 1-7	6	26
86	Simultaneous removal of bacteria and volatile organic compounds on Cu ₂ O-NPs decorated TiO ₂ nanotubes: Competition effect and kinetic studies. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020 , 400, 112722	4.7	26
85	Discoloration of simulated textile effluent in continuous photoreactor using immobilized titanium dioxide: Effect of zinc and sodium chloride. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018 , 358, 111-120	4.7	26
84	Comparison of HIPIMS sputtered Ag- and Cu-surfaces leading to accelerated bacterial inactivation in the dark. <i>Surface and Coatings Technology</i> , 2014 , 250, 14-20	4.4	26
83	Recent Developments in Accelerated Antibacterial Inactivation on 2D Cu-Titania Surfaces under Indoor Visible Light. <i>Coatings</i> , 2017 , 7, 20	2.9	26

82	Synergism between non-thermal plasma and photocatalysis: Implications in the post discharge of ozone at a pilot scale in a catalytic fixed-bed reactor. <i>Applied Catalysis B: Environmental</i> , 2019 , 241, 227-235	21.8	26
81	Photocatalytic Performance of CuO/TiO ₂ Deposited by HiPIMS on Polyester under Visible Light LEDs: Oxidants, Ions Effect, and Reactive Oxygen Species Investigation. <i>Materials</i> , 2019 , 12,	3.5	24
80	Duality in the Mechanism of Hexagonal ZnO/Cu _x O Nanowires Inducing Sulfamethazine Degradation under Solar or Visible Light. <i>Catalysts</i> , 2019 , 9, 916	4	24
79	Accelerated bacterial reduction on Ag ₃ NaN compared with Ag ₂ rN and Ag ₃ iN surfaces. <i>Applied Catalysis B: Environmental</i> , 2015 , 174-175, 376-382	21.8	23
78	Novel FeOx/polyethylene transparent films: synthesis and mechanism of surface regeneration. <i>RSC Advances</i> , 2015 , 5, 80203-80211	3.7	22
77	Bactericidal activity and mechanism of action of copper-sputtered flexible surfaces against multidrug-resistant pathogens. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 5945-53	5.7	22
76	Uniform TiO ₂ /In ₂ O ₃ surface films effective in bacterial inactivation under visible light. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2014 , 279, 1-7	4.7	22
75	Design, testing and characterization of innovative TiN/TiO ₂ surfaces inactivating bacteria under low intensity visible light. <i>RSC Advances</i> , 2012 , 2, 8591	3.7	22
74	Fungicidal activity of copper-sputtered flexible surfaces under dark and actinic light against azole-resistant <i>Candida albicans</i> and <i>Candida glabrata</i> . <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017 , 174, 229-234	6.7	21
73	Flower-like magnetized photocatalysts accelerating an emerging pollutant removal under indoor visible light and related phenomena. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019 , 378, 105-113	4.7	20
72	Femtosecond Spectroscopy of Au Hot-Electron Injection into TiO ₂ Evidence for Au/TiO ₂ Plasmon Photocatalysis by Bactericidal Au Ions and Related Phenomena. <i>Nanomaterials</i> , 2019 , 9,	5.4	20
71	Correlating microscopy techniques and ToF-SIMS analysis of fully grown mammalian oocytes. <i>Analyst, The</i> , 2016 , 141, 4121-9	5	20
70	Indoor air treatment of refrigerated food chambers with synergetic association between cold plasma and photocatalysis: Process performance and photocatalytic poisoning. <i>Chemical Engineering Journal</i> , 2020 , 382, 122951	14.7	20
69	Innovative photocatalyst (FeOx/TiO ₂): transients induced by femtosecond laser pulse leading to bacterial inactivation under visible light. <i>RSC Advances</i> , 2015 , 5, 101751-101759	3.7	19
68	Photocatalytic degradation of binary and ternary mixtures of antibiotics: reactive species investigation in pilot scale. <i>Chemical Engineering Research and Design</i> , 2019 , 144, 300-309	5.5	19
67	Insight into the catalyst/photocatalyst microstructure presenting the same composition but leading to a variance in bacterial reduction under indoor visible light. <i>Applied Catalysis B: Environmental</i> , 2017 , 208, 135-147	21.8	18
66	Innovative and stable TiO ₂ supported catalytic surfaces removing aldehydes under UV-light irradiation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017 , 343, 96-102	4.7	18
65	Duality in the Escherichia coli and methicillin resistant Staphylococcus aureus reduction mechanism under actinic light on innovative co-sputtered surfaces. <i>Applied Catalysis A: General</i> , 2015 , 498, 185-191	5.1	17

64	First unambiguous evidence for distinct ionic and surface-contact effects during photocatalytic bacterial inactivation on CuAg films: Kinetics, mechanism and energetics. <i>Materials Today Chemistry</i> , 2017 , 6, 62-74	6.2	17
63	Bactericide effects of transparent polyethylene photocatalytic films coated by oxides under visible light. <i>Applied Catalysis B: Environmental</i> , 2017 , 213, 62-73	21.8	16
62	Insights into the Photocatalytic Bacterial Inactivation by Flower-Like Bi ₂ WO ₆ under Solar or Visible Light, Through in Situ Monitoring and Determination of Reactive Oxygen Species (ROS). <i>Water (Switzerland)</i> , 2020 , 12, 1099	3	16
61	Accelerated Escherichia coli inactivation in the dark on uniform copper flexible surfaces. <i>Biointerphases</i> , 2014 , 9, 029012	1.8	16
60	TiO ₂ and TiO ₂ -Doped Films Able to Kill Bacteria by Contact: New Evidence for the Dynamics of Bacterial Inactivation in the Dark and under Light Irradiation. <i>International Journal of Photoenergy</i> , 2014 , 2014, 1-17	2.1	16
59	New evidence for Cu-decorated binary-oxides mediating bacterial inactivation/mineralization in aerobic media. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016 , 144, 222-228	6	16
58	Recent advances on sputtered films with Cu in ppm concentrations leading to an acceleration of the bacterial inactivation. <i>Catalysis Today</i> , 2020 , 340, 347-362	5.3	16
57	Accelerated self-cleaning by Cu promoted semiconductor binary-oxides under low intensity sunlight irradiation. <i>Applied Catalysis B: Environmental</i> , 2016 , 180, 648-655	21.8	15
56	Extracellular bacterial inactivation proceeding without Cu-ion release: Drastic effects of the applied plasma energy on the performance of the Cu-polyester (PES) samples. <i>Applied Catalysis B: Environmental</i> , 2018 , 239, 245-253	21.8	15
55	Photocatalytic performance of TiO ₂ impregnated polyester for the degradation of Reactive Green 12: Implications of the surface pretreatment and the microstructure. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017 , 346, 493-501	4.7	15
54	A New Perspective in the Use of FeO _x -TiO ₂ Photocatalytic Films: Indole Degradation in the Absence of Fe-Leaching. <i>Journal of Catalysis</i> , 2016 , 342, 184-192	7.3	15
53	Antibacterial surfaces based on functionally graded photocatalytic Fe ₃ O ₄ @TiO ₂ core-shell nanoparticle/epoxy composites. <i>RSC Advances</i> , 2015 , 5, 105416-105421	3.7	14
52	Self-Sterilizing Sputtered Films for Applications in Hospital Facilities. <i>Molecules</i> , 2017 , 22,	4.8	14
51	Combining photocatalytic process and biological treatment for Reactive Green 12 degradation: optimization, mineralization, and phytotoxicity with seed germination. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 12490-12499	5.1	14
50	Modeling and treatment optimization of pharmaceutically active compounds by the photo-Fenton process: The case of the antidepressant Venlafaxine. <i>Journal of Environmental Chemical Engineering</i> , 2017 , 5, 818-828	6.8	13
49	FeO _x -TiO ₂ Film with Different Microstructures Leading to Femtosecond Transients with Different Properties: Biological Implications under Visible Light. <i>Scientific Reports</i> , 2016 , 6, 30113	4.9	13
48	Insight into the interaction of magnetic photocatalysts with the incoming light accelerating bacterial inactivation and environmental cleaning. <i>Applied Catalysis B: Environmental</i> , 2021 , 281, 119420	21.8	13
47	Digitally Printed AgNPs Doped TiO ₂ on Commercial Porcelain-Gr [®] Tiles: Synergistic Effects and Continuous Photocatalytic Antibacterial Activity. <i>Surfaces</i> , 2020 , 3, 11-25	2.9	12

46	Preparation and applications of chitosan and cellulose composite materials. <i>Journal of Environmental Management</i> , 2022 , 301, 113850	7.9	12
45	Stable Photocatalytic Paints Prepared from Hybrid Core-Shell Fluorinated/Acrylic/TiO ₂ Waterborne Dispersions. <i>Crystals</i> , 2016 , 6, 136	2.3	12
44	Mechanisms of the Antibacterial Effects of TiO ₂ /FeOx under Solar or Visible Light: Schottky Barriers versus Surface Plasmon Resonance. <i>Coatings</i> , 2018 , 8, 391	2.9	12
43	Evidence for differentiated ionic and surface contact effects driving bacterial inactivation by way of genetically modified bacteria. <i>Chemical Communications</i> , 2017 , 53, 9093-9096	5.8	11
42	Beneficial effect of Cu on Ti-Nb-Ta-Zr sputtered uniform/adhesive gum films accelerating bacterial inactivation under indoor visible light. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017 , 152, 152-158	6	10
41	Assessment of the correlation among antibiotic resistance, adherence to abiotic and biotic surfaces, invasion and cytotoxicity of <i>Pseudomonas aeruginosa</i> isolated from diseased gilthead sea bream. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017 , 158, 229-236	6	10
40	Light wavelength-dependent <i>E. coli</i> survival changes after simulated solar disinfection of secondary effluent. <i>Photochemical and Photobiological Sciences</i> , 2015 , 14, 2238-50	4.2	10
39	Preparation, characterization and application of biosurfactant in various industries: A critical review on progress, challenges and perspectives. <i>Environmental Technology and Innovation</i> , 2021 , 24, 102090	7	10
38	Sputtered Gum metal thin films showing bacterial inactivation and biocompatibility. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016 , 146, 687-91	6	10
37	Enhancing solar disinfection of water in PET bottles by optimized in-situ formation of iron oxide films. From heterogeneous to homogeneous action modes with H ₂ O ₂ vs. O ₂ [Part 1: Iron salts as oxide precursors. <i>Chemical Engineering Journal</i> , 2019 , 358, 211-224	14.7	10
36	Oxygen enriched network-type carbon spheres for multipurpose water purification applications. <i>Environmental Technology and Innovation</i> , 2018 , 12, 160-171	7	9
35	Methods for Synthesis of Hybrid Nanoparticles 2019 , 51-63		8
34	Nano-sized iron oxides supported on polyester textile to remove fluoroquinolones in hospital wastewater. <i>Environmental Science: Nano</i> , 2020 , 7, 2156-2165	7.1	8
33	Innovative TiNb N-Ag Films Inducing Bacterial Disinfection by Visible Light/Thermal Treatment. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 12021-12030	9.5	7
32	Accelerated bacterial inactivation obtained by HIPIMS sputtering on low cost surfaces with concomitant reduction in the metal/semiconductor content. <i>RSC Advances</i> , 2013 , 3, 13127	3.7	7
31	Grafted semiconductors on PE-films leading to bacterial inactivation: Synthesis, characterization and mechanism. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017 , 519, 231-237	5.1	7
30	KCa ₂ Mg ₂ V ₃ O ₁₂ : A novel efficient rare-earth-free self-activated yellow-emitting phosphor. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020 , 401, 112765	4.7	7
29	Synthesis and photoluminescence properties of near-UV-excitable cyan-emitting Ca ₂ YHf ₂ Ga ₃ O ₁₂ :Ce ³⁺ garnet phosphors. <i>Journal of Luminescence</i> , 2020 , 227, 117544	3.8	7

28	Evidence for TiON sputtered surfaces showing accelerated antibacterial activity under simulated solar irradiation. <i>Solar Energy</i> , 2013 , 93, 55-62	6.8	6
27	Tandem Synthesis of High Yield MoS ₂ Nanosheets and Enzyme Peroxidase Mimicking Properties. <i>Catalysts</i> , 2020 , 10, 1009	4	6
26	Deciphering the Mechanisms of Bacterial Inactivation on HiPIMS Sputtered CuO-FeO-PET Surfaces: From Light Absorption to Catalytic Bacterial Death. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 45319-45329	9.5	6
25	Interaction of Vibrio to Biotic and Abiotic Surfaces: Relationship between Hydrophobicity, Cell Adherence, Biofilm Production, and Cytotoxic Activity. <i>Surfaces</i> , 2018 , 1, 187-201	2.9	6
24	Effect of light and oxygen on repetitive bacterial inactivation on uniform, adhesive, robust and stable Cu-polyester surfaces. <i>Journal of Advanced Oxidation Technologies</i> , 2017 , 20,		5
23	Enhancing solar disinfection of water in PET bottles by optimized in-situ formation of iron oxide films. From heterogeneous to homogeneous action modes with H ₂ O ₂ vs. O ₂ [Part 2: Direct use of (natural) iron oxides. <i>Chemical Engineering Journal</i> , 2019 , 360, 1051-1062	14.7	5
22	Coupling electrocoagulation and solar photocatalysis for electro- and photo-catalytic removal of carmoisine by Ag/graphitic carbon nitride: Optimization by process modeling and kinetic studies. <i>Journal of Molecular Liquids</i> , 2021 , 340, 116917	6	5
21	Nanostructured NaFeS ₂ as a cost-effective and robust electrocatalyst for hydrogen and oxygen evolution with reduced overpotentials. <i>Chemical Engineering Journal</i> , 2021 , 426, 131315	14.7	5
20	Physics, Electrochemistry, Photochemistry, and Photoelectrochemistry of Hybrid Nanoparticles 2019 , 95-123		4
19	Biological responses at the interface of Ti-doped diamond-like carbon surfaces for indoor environment application. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 31120-31129	5.1	4
18	Update on Interfacial Charge Transfer (IFTC) Processes on Films Inactivating Viruses/Bacteria under Visible Light: Mechanistic Considerations and Critical Issues. <i>Catalysts</i> , 2021 , 11, 201	4	4
17	Modeling of indoor air treatment using an innovative photocatalytic luminous textile: Reactor compactness and mass transfer enhancement. <i>Chemical Engineering Journal</i> , 2021 , 430, 132636	14.7	4
16	Innovative self-sterilizing transparent Fe ³⁺ phosphate polyethylene films under visible light. <i>RSC Advances</i> , 2016 , 6, 77066-77074	3.7	2
15	Nanomaterials-based coatings: an introduction 2019 , 1-7		2
14	New Evidence for Ag-Sputtered Materials Inactivating Bacteria by Surface Contact without the Release of Ag Ions: End of a Long Controversy?. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 4998-5007	9.5	2
13	Environmentally mild self-cleaning processes on textile surfaces under daylight irradiation 2016 , 35-54		2
12	Sputtered Cu-polyethylene films inducing bacteria inactivation in the dark and under low intensity sunlight. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2016 , 330, 163-168	4.7	2
11	Monitoring the energy of the metal ion-content plasma-assisted deposition and its implication for bacterial inactivation. <i>Applied Surface Science</i> , 2019 , 467-468, 749-752	6.7	2

10	Accelerating the Design of Photocatalytic Surfaces for Antimicrobial Application: Machine Learning Based on a Sparse Dataset. <i>Catalysts</i> , 2021 , 11, 1001	4	2
9	Heterogeneous advanced oxidation processes over stoichiometric ABO ₃ perovskite nanostructures. <i>Materials Today Nano</i> , 2022 , 100184	9.7	1
8	Uniform, adhesive, and low cytotoxic films accelerating bacterial reduction in the dark and under visible light 2016 , 225-260		1
7	Photo-induced environmental remediation, biomedical imaging, and microbial inactivation by Mn-doped semiconductors: critical issues. <i>Current Opinion in Chemical Engineering</i> , 2021 , 34, 100731	5.4	1
6	Architected Cu ^{II} /NTZ Bilayered Coatings Showing Bacterial Inactivation under Indoor Light and Controllable Copper Release: Effect of the Microstructure on Copper Diffusion. <i>Coatings</i> , 2020 , 10, 574	2.9	0
5	Investigation and modeling of odors release from membrane holes on daily overlay in a landfill and its impact on landfill odor control. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 4443-4451	5.1	0
4	Enhanced adsorption of ketoprofen and 2,4-dichlorophenoxyacetic acid on <i>Physalis peruviana</i> fruit residue functionalized with H ₂ SO ₄ : Adsorption properties and statistical physics modeling. <i>Chemical Engineering Journal</i> , 2022 , 445, 136773	14.7	0
3	Titanium-based photocatalytic coatings for bacterial disinfection: The shift from suspended powders to catalytic interfaces. <i>Surfaces and Interfaces</i> , 2022 , 102078	4.1	0
2	Photo-plasma catalytic hybrid systems for air treatment: reactor design from laboratory to industrial scales 2020 , 373-389		
1	Iron-coated polymer films with high antibacterial activity under indoor and outdoor light, prepared by different facile pre-treatment and deposition methods. <i>Applied Catalysis B: Environmental</i> , 2019 , 243, 161-174	21.8	