Alexander Popp

List of Publications by Year
in descending order

177 papers	19,858 citations	13099 68 h-index	11939 134 g-index
190 all docs	190 docs citations	190 times ranked	17447 citing authors

#	Article	IF	Citations
1	The Shared Socioeconomic Pathways and their energy, land use, and greenhouse gas emissions implications: An overview. Global Environmental Change, 2017, 42, 153-168.	7.8	2,966
2	Scenarios towards limiting global mean temperature increase below 1.5 Â°C. Nature Climate Change, 2018, 8, 325-332.	18.8	795
3	Land-use futures in the shared socio-economic pathways. Global Environmental Change, 2017, 42, 331-345.	7.8	645
4	Climate change effects on agriculture: Economic responses to biophysical shocks. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 3274-3279.	7.1	568
5	Global emissions pathways under different socioeconomic scenarios for use in CMIP6: a dataset of harmonized emissions trajectories through the end of the century. Geoscientific Model Development, 2019, 12, 1443-1475.	3.6	496
6	Bioenergy and climate change mitigation: an assessment. GCB Bioenergy, 2015, 7, 916-944.	5.6	494
7	How much landâ€based greenhouse gas mitigation can be achieved without compromising food security and environmental goals?. Global Change Biology, 2013, 19, 2285-2302.	9.5	454
8	Fossil-fueled development (SSP5): An energy and resource intensive scenario for the 21st century. Global Environmental Change, 2017, 42, 297-315.	7.8	418
9	Bending the curve of terrestrial biodiversity needs an integrated strategy. Nature, 2020, 585, 551-556.	27.8	413
10	Assessing the impacts of 1.5â€Â°C global warming â€“ simulation protocol of the Inter-Sectoral Impact Model Intercomparison Project (ISIMIP2b). Geoscientific Model Development, 2017, 10, 4321-4345.	3.6	410
11	Harmonization of global land use change and management for the period 850â€“2100 (LUH2) for CMIP6. Geoscientific Model Development, 2020, 13, 5425-5464.	3.6	408
12	Reactive nitrogen requirements to feed the world in 2050 and potential to mitigate nitrogen pollution. Nature Communications, 2014, 5, 3858.	12.8	356
13	Food consumption, diet shifts and associated non-CO2 greenhouse gases from agricultural production. Global Environmental Change, 2010, 20, 451-462.	7.8	323
14	Understanding future emissions from low-carbon power systems by integration of life-cycle assessment and integrated energy modelling. Nature Energy, 2017, 2, 939-945.	39.5	321
15	Challenges for land system science. Land Use Policy, 2012, 29, 899-910.	5.6	320
16	Contribution of the land sector to a 1.5 Â°C world. Nature Climate Change, 2019, 9, 817-828.	18.8	301
17	Innovation can accelerate the transition towards a sustainable food system. Nature Food, 2020, 1, 266-272.	14.0	285
18	Land-use change trajectories up to 2050: insights from a global agro-economic model comparison. Agricultural Economics (United Kingdom), 2014, 45, 69-84.	3.9	220

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19	Climate change impacts on agriculture in 2050 under a range of plausible socioeconomic and emissions scenarios. Environmental Research Letters, 2015, 10, 085010.	5.2	216
20	Biomass-based negative emissions difficult to reconcile with planetary boundaries. Nature Climate Change, 2018, 8, 151-155.	18.8	207
21	The worldâ€™s growing municipal solid waste: trends and impacts. Environmental Research Letters, 2020, 15, 074021.	5.2	207
22	Impact of declining renewable energy costs on electrification in low-emission scenarios. Nature Energy, 2022, 7, 32-42.	39.5	196
23	Environmental co-benefits and adverse side-effects of alternative power sector decarbonization strategies. Nature Communications, 2019, 10, 5229.	12.8	188
24	Land-Management Options for Greenhouse Gas Removal and Their Impacts on Ecosystem Services and the Sustainable Development Goals. Annual Review of Environment and Resources, 2019, 44, 255-286.	13.4	181
25	A sustainable development pathway for climate action within the UN 2030 Agenda. Nature Climate Change, 2021, 11, 656-664.	18.8	179
26	Global Food Demand Scenarios for the 21st Century. PLoS ONE, 2015, 10, e0139201.	2.5	178
27	Hotspots of uncertainty in landâ€use and landâ€cover change projections: a globalâ€scale model comparison. Global Change Biology, 2016, 22, 3967-3983.	9.5	171
28	Land-use protection for climate change mitigation. Nature Climate Change, 2014, 4, 1095-1098.	18.8	164
29	Global food demand, productivity growth, and the scarcity of land and water resources: a spatially explicit mathematical programming approach. Agricultural Economics (United Kingdom), 2008, 39, 325-338.	3.9	160
30	The economic potential of bioenergy for climate change mitigation with special attention given to implications for the land system. Environmental Research Letters, 2011, 6, 034017.	5.2	159
31	Trading more food: Implications for land use, greenhouse gas emissions, and the food system. Global Environmental Change, 2012, 22, 189-209.	7.8	154
32	Bioenergy in energy transformation and climate management. Climatic Change, 2014, 123, 477-493.	3.6	154
33	A multi-model assessment of food security implications of climate change mitigation. Nature Sustainability, 2019, 2, 386-396.	23.7	152
34	Land-use transition for bioenergy and climate stabilization: model comparison of drivers, impacts and interactions with other land use based mitigation options. Climatic Change, 2014, 123, 495-509.	3.6	140
35	Articulating the effect of food systems innovation on the Sustainable Development Goals. Lancet Planetary Health, The, 2021, 5, e50-e62.	11.4	135
36	Multiscale scenarios for nature futures. Nature Ecology and Evolution, 2017, 1, 1416-1419.	7.8	131

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37	Investigating afforestation and bioenergy CCS as climate change mitigation strategies. Environmental Research Letters, 2014, 9, 064029.	5.2	129
38	Developing multiscale and integrative natureâ€“people scenarios using the Nature Futures Framework. People and Nature, 2020, 2, 1172-1195.	3.7	127
39	Analysing interactions among Sustainable Development Goals with Integrated Assessment Models. Global Transitions, 2019, 1, 210-225.	4.1	126
40	Decoupling Livestock from Land Use through Industrial Feed Production Pathways. Environmental Science & Technology, 2018, 52, 7351-7359.	10.0	124
41	A dual mortar approach for 3D finite deformation contact with consistent linearization. International Journal for Numerical Methods in Engineering, 2010, 83, 1428-1465.	2.8	123
42	Key determinants of global land-use projections. Nature Communications, 2019, 10, 2166.	12.8	123
43	A finite deformation mortar contact formulation using a primalâ€“dual active set strategy. International Journal for Numerical Methods in Engineering, 2009, 79, 1354-1391.	2.8	122
44	Reconciling top-down and bottom-up modelling on future bioenergy deployment. Nature Climate Change, 2012, 2, 320-327.	18.8	120
45	Scenarios of global bioenergy production: The trade-offs between agricultural expansion, intensification and trade. Ecological Modelling, 2010, 221, 2188-2196.	2.5	119
46	The impact of high-end climate change on agricultural welfare. Science Advances, 2016, 2, e1501452.	10.3	118
47	Geometrically Exact Finite Element Formulations for Slender Beams: Kirchhoffâ€“Love Theory Versus Simoâ€“Reissner Theory. Archives of Computational Methods in Engineering, 2019, 26, 163-243.	10.2	114
48	Landâ€based measures to mitigate climate change: Potential and feasibility by country. Global Change Biology, 2021, 27, 6025-6058.	9.5	114
49	Tradeâ€offs between land and water requirements for largeâ€scale bioenergy production. GCB Bioenergy, 2016, 8, 11-24.	5.6	108
50	Quantification of global and national nitrogen budgets for crop production. Nature Food, 2021, 2, 529-540.	14.0	108
51	Assessing uncertainties in land cover projections. Global Change Biology, 2017, 23, 767-781.	9.5	103
52	Cost and attainability of meeting stringent climate targets without overshoot. Nature Climate Change, 2021, 11, 1063-1069.	18.8	102
53	An objective 3D large deformation finite element formulation for geometrically exact curved Kirchhoff rods. Computer Methods in Applied Mechanics and Engineering, 2014, 278, 445-478.	6.6	101
54	N₂O emissions from the global agricultural nitrogen cycle â€“ current state and future scenarios. Biogeosciences, 2012, 9, 4169-4197.	3.3	96

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55	Large-scale bioenergy production: how to resolve sustainability trade-offs?. Environmental Research Letters, 2018, 13, 024011.	5.2	96
56	Comparing impacts of climate change and mitigation on global agriculture by 2050. Environmental Research Letters, 2018, 13, 064021.	5.2	93
57	Shrub encroachment affects mammalian carnivore abundance and species richness in semiarid rangelands. Acta Oecologica, 2007, 31, 86-92.	1.1	92
58	Impacts of increased bioenergy demand on global food markets: an AgMIP economic model intercomparison. Agricultural Economics (United Kingdom), 2014, 45, 103-116.	3.9	85
59	Microbes and the Next Nitrogen Revolution. Environmental Science & Technology, 2017, 51, 7297-7303.	10.0	85
60	The ongoing nutrition transition thwarts long-term targets for food security, public health and environmental protection. Scientific Reports, 2020, 10, 19778.	3.3	85
61	Livestock in a changing climate: production system transitions as an adaptation strategy for agriculture. Environmental Research Letters, 2015, 10, 094021.	5.2	84
62	Pathways limiting warming to 1.5Â°C: a tale of turning around in no time?. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20160457.	3.4	84
63	Forecasting technological change in agricultureâ€"An endogenous implementation in a global land use model. Technological Forecasting and Social Change, 2014, 81, 236-249.	11.6	83
64	Measuring agricultural land-use intensity â€“ A global analysis using a model-assisted approach. Ecological Modelling, 2012, 232, 109-118.	2.5	82
65	The value of bioenergy in low stabilization scenarios: an assessment using REMIND-MAgPIE. Climatic Change, 2014, 123, 705-718.	3.6	81
66	Dual Quadratic Mortar Finite Element Methods for 3D Finite Deformation Contact. SIAM Journal of Scientific Computing, 2012, 34, B421-B446.	2.8	79
67	Isogeometric dual mortar methods for computational contact mechanics. Computer Methods in Applied Mechanics and Engineering, 2016, 301, 259-280.	6.6	77
68	Finite deformation frictional mortar contact using a semiâ€smooth Newton method with consistent linearization. International Journal for Numerical Methods in Engineering, 2010, 84, 543-571.	2.8	74
69	Afforestation to mitigate climate change: impacts on food prices under consideration of albedo effects. Environmental Research Letters, 2016, 11, 085001.	5.2	74
70	Peatland protection and restoration are key for climate change mitigation. Environmental Research Letters, 2020, 15, 104093.	5.2	74
71	Between Scylla and Charybdis: Delayed mitigation narrows the passage between large-scale CDR and high costs. Environmental Research Letters, 2018, 13, 044015.	5.2	73
72	Projected environmental benefits of replacing beef with microbial protein. Nature, 2022, 605, 90-96.	27.8	72

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73	Simulating and delineating future land change trajectories across Europe. Regional Environmental Change, 2018, 18, 733-749.	2.9	70
74	Additional CO2 emissions from land use change â€" Forest conservation as a precondition for sustainable production of second generation bioenergy. Ecological Economics, 2012, 74, 64-70.	5.7	68
75	3D fluidâ€"structure-contact interaction based on a combined XFEM FSI and dual mortar contact approach. Computational Mechanics, 2010, 46, 53-67.	4.0	67
76	Improved robustness and consistency of 3D contact algorithms based on a dual mortar approach. Computer Methods in Applied Mechanics and Engineering, 2013, 264, 67-80.	6.6	66
77	Bioenergy production and sustainable development: science base for policymaking remains limited. GCB Bioenergy, 2017, 9, 541-556.	5.6	66
78	Segment-based vs. element-based integration for mortar methods in computational contact mechanics. Computational Mechanics, 2015, 55, 209-228.	4.0	63
79	Combining ambitious climate policies with efforts to eradicate poverty. Nature Communications, 2021, 12, 2342.	12.8	63
80	A protocol for an intercomparison of biodiversity and ecosystem services models using harmonized land-use and climate scenarios. Geoscientific Model Development, 2018, 11, 4537-4562.	3.6	61
81	Quantification of an efficiencyâ€"sovereignty trade-offâ€„in climate policy. Nature, 2020, 588, 261-266.	27.8	61
82	Critical adjustment of land mitigation pathways for assessing countriesâ€™ climate progress. Nature Climate Change, 2021, 11, 425-434.	18.8	61
83	Fluidâ€"structure interaction for non-conforming interfaces based on a dual mortar formulation. Computer Methods in Applied Mechanics and Engineering, 2011, 200, 3111-3126.	6.6	59
84	On sustainability of bioenergy production: Integrating co-emissions from agricultural intensification. Biomass and Bioenergy, 2011, 35, 4770-4780.	5.7	58
85	The impact of climate change mitigation on water demand for energy and food: An integrated analysis based on the Shared Socioeconomic Pathways. Environmental Science and Policy, 2016, 64, 48-58.	4.9	58
86	A unified approach for beam-to-beam contact. Computer Methods in Applied Mechanics and Engineering, 2017, 315, 972-1010.	6.6	57
87	Mitigation Strategies for Greenhouse Gas Emissions from Agriculture and Land-Use Change: Consequences for Food Prices. Environmental Science & Technology, 2017, 51, 365-374.	10.0	57
88	Large uncertainty in carbon uptake potential of landâ€based climateâ€change mitigation efforts. Global Change Biology, 2018, 24, 3025-3038.	9.5	56
89	MAgPIE 4 â€" aÂmodular open-source framework for modeling global land systems. Geoscientific Model Development, 2019, 12, 1299-1317.	3.6	56
90	A finite element approach for the line-to-line contact interaction of thin beams with arbitrary orientation. Computer Methods in Applied Mechanics and Engineering, 2016, 308, 377-413.	6.6	55

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91	A locking-free finite element formulation and reduced models for geometrically exact Kirchhoff rods. Computer Methods in Applied Mechanics and Engineering, 2015, 290, 314-341.	6.6	54
92	Defining a sustainable development target space for 2030 and 2050. One Earth, 2022, 5, 142-156.	6.8	54
93	Blue water scarcity and the economic impacts of future agricultural trade and demand. Water Resources Research, 2013, 49, 3601-3617.	4.2	52
94	A cut-cell finite volume â€“ finite element coupling approach for fluidâ€“structure interaction in compressible flow. Journal of Computational Physics, 2016, 307, 670-695.	3.8	51
95	Short term policies to keep the door open for Paris climate goals. Environmental Research Letters, 2018, 13, 074022.	5.2	48
96	Targeted policies can compensate most of the increased sustainability risks in 1.5â€‰Â°C mitigation scenarios. Environmental Research Letters, 2018, 13, 064038.	5.2	48
97	Environmental flow provision: Implications for agricultural water and land-use at the global scale. Global Environmental Change, 2015, 30, 113-132.	7.8	47
98	Dual mortar methods for computational contact mechanics â€“ overview and recent developments. GAMM Mitteilungen, 2014, 37, 66-84.	5.5	46
99	Climate extremes, landâ€“climate feedbacks and land-use forcing at 1.5Â°C. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20160450.	3.4	46
100	Carbon dioxide removal technologies are not born equal. Environmental Research Letters, 2021, 16, 074021.	5.2	45
101	Livestock and human use of land: Productivity trends and dietary choices as drivers of future land and carbon dynamics. Global and Planetary Change, 2017, 159, 1-10.	3.5	44
102	Bioenergy for climate change mitigation: Scale and sustainability. GCB Bioenergy, 2021, 13, 1346-1371.	5.6	43
103	An abstract framework for a priori estimates for contact problems in 3D with quadratic finite elements. Computational Mechanics, 2012, 49, 735-747.	4.0	40
104	Predicting pan-tropical climate change induced forest stock gains and lossesâ€”implications for REDD. Environmental Research Letters, 2010, 5, 014013.	5.2	38
105	Biomass residues as twenty-first century bioenergy feedstockâ€”a comparison of eight integrated assessment models. Climatic Change, 2020, 163, 1569-1586.	3.6	38
106	Bio-IGCC with CCS as a long-term mitigation option in a coupled energy-system and land-use model. Energy Procedia, 2011, 4, 2933-2940.	1.8	36
107	Land-Use and Carbon Cycle Responses to Moderate Climate Change: Implications for Land-Based Mitigation?. Environmental Science & Technology, 2015, 49, 6731-6739.	10.0	36
108	Geometrically exact beam elements and smooth contact schemes for the modeling of fiber-based materials and structures. International Journal of Solids and Structures, 2018, 154, 124-146.	2.7	36

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109	Livestock production and the water challenge of future food supply: Implications of agricultural management and dietary choices. Global Environmental Change, 2017, 47, 121-132.	7.8	34
110	Reducing the loss of information and gaining accuracy with clustering methods in a global land-use model. Ecological Modelling, 2013, 263, 233-243.	2.5	33
111	Global consequences of afforestation and bioenergy cultivation on ecosystem service indicators. Biogeosciences, 2017, 14, 4829-4850.	3.3	33
112	Food security under high bioenergy demand toward long-term climate goals. Climatic Change, 2020, 163, 1587-1601.	3.6	33
113	Biodiversity postâ€2020: Closing the gap between global targets and nationalâ€level implementation. Conservation Letters, 2022, 15, e12848.	5.7	32
114	A framework for nitrogen futures in the shared socioeconomic pathways. Global Environmental Change, 2020, 61, 102029.	7.8	30
115	Managing the Low-Carbon Transition - From Model Results to Policies. Energy Journal, 2010, 31, 223-245.	1.7	29
116	How do we best synergize climate mitigation actions to coâ€benefit biodiversity?. Global Change Biology, 2022, 28, 2555-2577.	9.5	28
117	Integrating degrowth and efficiency perspectives enables an emission-neutral food system by 2100. Nature Food, 2022, 3, 341-348.	14.0	28
118	Ecohydrological feedback mechanisms in arid rangelands: Simulating the impacts of topography and land use. Basic and Applied Ecology, 2009, 10, 319-329.	2.7	27
119	Land-based implications of early climate actions without global net-negative emissions. Nature Sustainability, 2021, 4, 1052-1059.	23.7	27
120	Conservation of undisturbed natural forests and economic impacts on agriculture. Land Use Policy, 2013, 30, 344-354.	5.6	26
121	The global economic long-term potential of modern biomass in a climate-constrained world. Environmental Research Letters, 2014, 9, 074017.	5.2	26
122	Identifying pathways to visions of future land use in Europe. Regional Environmental Change, 2018, 18, 817-830.	2.9	26
123	Mapping the yields of lignocellulosic bioenergy crops from observations at the global scale. Earth System Science Data, 2020, 12, 789-804.	9.9	26
124	Land Management and Ecosystem Services How Collaborative Research Programmes Can Support Better Policies. Gaia, 2012, 21, 55-63.	0.7	24
125	A semi-smooth Newton method for orthotropic plasticity and frictional contact at finite strains. Computer Methods in Applied Mechanics and Engineering, 2015, 285, 228-254.	6.6	24
126	Integrated Solutions for the Water-Energy-Land Nexus: Are Global Models Rising to the Challenge?. Water (Switzerland), 2019, 11, 2223.	2.7	24

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127	Biorthogonal splines for optimal weak patch-coupling in isogeometric analysis with applications to finite deformation elasticity. Computer Methods in Applied Mechanics and Engineering, 2019, 346, 197-215.	6.6	24
128	Impacts of enhanced weathering on biomass production for negative emission technologies and soil hydrology. Biogeosciences, 2020, 17, 2107-2133.	3.3	24
129	Can Bioenergy Assessments Deliver?. Economics of Energy and Environmental Policy, 2012, 1, .	1.4	24
130	Food system development pathways for healthy, nature-positive and inclusive food systems. Nature Food, 2021, 2, 928-934.	14.0	24
131	Agricultural trade and tropical deforestation: interactions and related policy options. Regional Environmental Change, 2015, 15, 1757-1772.	2.9	23
132	A consistent approach for fluidâ€structureâ€contact interaction based on a porous flow model for rough surface contact. International Journal for Numerical Methods in Engineering, 2019, 119, 1345-1378.	2.8	23
133	A mortar-type finite element approach for embedding 1D beams into 3D solid volumes. Computational Mechanics, 2020, 66, 1377-1398.	4.0	23
134	Bio-energy and CO2 emission reductions: an integrated land-use and energy sector perspective. Climatic Change, 2020, 163, 1675-1693.	3.6	23
135	Pasture intensification is insufficient to relieve pressure on conservation priority areas in open agricultural markets. Global Change Biology, 2018, 24, 3199-3213.	9.5	22
136	The value of climate-resilient seeds for smallholder adaptation in sub-Saharan Africa. Climatic Change, 2020, 162, 1213-1229.	3.6	22
137	Taking account of governance: Implications for land-use dynamics, food prices, and trade patterns. Ecological Economics, 2016, 122, 12-24.	5.7	21
138	Beyond land-use intensity: Assessing future global crop productivity growth under different socioeconomic pathways. Technological Forecasting and Social Change, 2020, 160, 120208.	11.6	21
139	Challenges in producing policy-relevant global scenarios of biodiversity and ecosystem services. Global Ecology and Conservation, 2020, 22, e00886.	2.1	17
140	A dual mortar approach for mesh tying within a variational multiscale method for incompressible flow. International Journal for Numerical Methods in Fluids, 2014, 76, 1-27.	1.6	15
141	A cross-scale impact assessment of European nature protection policies under contrasting future socio-economic pathways. Regional Environmental Change, 2018, 18, 751-762.	2.9	15
142	Reforming Chinaâ€™s fertilizer policies: implications for nitrogen pollution reduction and food security. Sustainability Science, 2023, 18, 407-420.	4.9	14
143	Scaling up ecohydrological processes: Role of surface water flow in waterâ€limited landscapes. Journal of Geophysical Research, 2009, 114, .	3.3	13
144	Algebraic multigrid methods for dual mortar finite element formulations in contact mechanics. International Journal for Numerical Methods in Engineering, 2018, 114, 399-430.	2.8	13

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145	A mortar finite element approach for point, line, and surface contact. International Journal for Numerical Methods in Engineering, 2018, 114, 255-291.	2.8	13
146	A monolithic, mortarâ€based interface coupling and solution scheme for finite element simulations of lithiumâ€ion cells. International Journal for Numerical Methods in Engineering, 2018, 114, 1411-1437.	2.8	12
147	Impact of LULCC on the emission of BVOCs during the 21st century. Atmospheric Environment, 2017, 165, 73-87.	4.1	11
148	An implicit finite wear contact formulation based on dual mortar methods. International Journal for Numerical Methods in Engineering, 2017, 111, 325-353.	2.8	11
149	A multi-scale FEM-BEM formulation for contact mechanics between rough surfaces. Computational Mechanics, 2020, 65, 731-749.	4.0	11
150	Are scenario projections overly optimistic about future yield progress?. Global Environmental Change, 2020, 64, 102120.	7.8	11
151	Quantifying synergies and trade-offs in the global water-land-food-climate nexus using a multi-model scenario approach. Environmental Research Letters, 2022, 17, 045004.	5.2	11
152	Simulating the impacts of vegetation structure on the occurrence of a small mammalian carnivore in semi-arid savanna rangelands. Ecological Modelling, 2007, 209, 136-148.	2.5	9
153	Algebraic multigrid methods for saddle point systems arising from mortar contact formulations. International Journal for Numerical Methods in Engineering, 2021, 122, 3749-3779.	2.8	9
154	Landuse experience does qualify for adaptation to climate change. Ecological Modelling, 2009, 220, 694-702.	2.5	8
155	The impact of global change on economic values of water for Public Irrigation Schemes at the SÃ£o Francisco River Basin in Brazil. Regional Environmental Change, 2018, 18, 1943-1955.	2.9	8
156	A truly variationally consistent and symmetric mortar-based contact formulation for finite deformation solid mechanics. Computer Methods in Applied Mechanics and Engineering, 2018, 342, 532-560.	6.6	8
157	Global biomass supply modeling for long-run management of the climate system. Climatic Change, 2022, 172, .	3.6	8
158	Finite Deformation Contact Based on a 3D Dual Mortar and Semi-Smooth Newton Approach. Lecture Notes in Applied and Computational Mechanics, 2011, , 57-77.	2.2	6
159	Volumetric coupling approaches for multiphysics simulations on nonâ€matching meshes. International Journal for Numerical Methods in Engineering, 2016, 108, 1550-1576.	2.8	6
160	Consistent coupling of positions and rotations for embedding 1D Cosserat beams into 3D solid volumes. Computational Mechanics, 2022, 69, 701-732.	4.0	6
161	One-way coupled fluidâ€“beam interaction: capturing the effect of embedded slender bodies on global fluid flow and vice versa. Advanced Modeling and Simulation in Engineering Sciences, 2022, 9, .	1.7	6
162	An overview of the Energy Modeling Forum 33rd study: assessing large-scale global bioenergy deployment for managing climate change. Climatic Change, 2020, 163, 1539-1551.	3.6	5

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163	Producing Policy-relevant Science by Enhancing Robustness and Model Integration for the Assessment of Global Environmental Change. Environmental Modelling and Software, 2019, 111, 248-258.	4.5	4
164	Australia at the crossroads. Nature, 2015, 527, 40-41.	27.8	3
165	Robust strategies of climate change mitigation in interacting energy, economy and land use systems. International Journal of Climate Change Strategies and Management, 2016, 8, 732-757.	2.9	3
166	Accounting for local temperature effect substantially alters afforestation patterns. Environmental Research Letters, 2022, 17, 024030.	5.2	3
167	Land tax: towards a multifunctional institutional tool for land reform and rangeland conservation. International Journal of Global Environmental Issues, 2012, 12, 36.	0.1	2
168	A Primal-Dual Active Set Strategy for Finite Deformation Dual Mortar Contact. Lecture Notes in Applied and Computational Mechanics, 2013, , 151-171.	2.2	2
169	Estimating global land system impacts of timber plantations using MAgPIE 4.3.5. Geoscientific Model Development, 2021, 14, 6467-6494.	3.6	2
170	Agricultural Adaptation Options: Production Technology, Insurance, Trade. , 2012, , 171-178.		2
171	Mechanisms for Avoiding Deforestation and Forest Degradation. , 2012, , 287-295.		1
172	Efficient mortarâ€based algorithms for embedding 1D fibers into 3D volumes. Proceedings in Applied Mathematics and Mechanics, 2021, 20, e202000151.	0.2	1
173	Land Use Management for Greenhouse Gas Mitigation. , 2012, , 151-159.		1
174	Food Security in a Changing Climate. , 2012, , 33-43.		1
175	Technological change in agriculture and the trade-offs between land expansion, intensification and international trade. IOP Conference Series: Earth and Environmental Science, 2009, 6, 512003.	0.3	0
176	An academic approach to the multidisciplinary development of liquid-oxygen turbopumps for space applications. CEAS Space Journal, 2019, 11, 193-203.	2.3	0
177	Fluidâ€Structure Interaction of Slender Continua with 3â€Dimensional Flow: An Embedded Finite Element Approach. Proceedings in Applied Mathematics and Mechanics, 2021, 20, e202000244.	0.2	0