

Prashanth Siddhamshetty

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

568
citations

623734

14
h-index

752698

20
g-index

24
all docs

24
docs citations

24
times ranked

315
citing authors

#	ARTICLE	IF	CITATIONS
1	Temporal clustering for order reduction of nonlinear parabolic PDE systems with time-dependent spatial domains: Application to a hydraulic fracturing process. <i>AICHE Journal</i> , 2017, 63, 3818-3831.	3.6	78
2	Handling Spatial Heterogeneity in Reservoir Parameters Using Proper Orthogonal Decomposition Based Ensemble Kalman Filter for Model-Based Feedback Control of Hydraulic Fracturing. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 3977-3989.	3.7	56
3	Model order reduction of nonlinear parabolic PDE systems with moving boundaries using sparse proper orthogonal decomposition: Application to hydraulic fracturing. <i>Computers and Chemical Engineering</i> , 2018, 112, 92-100.	3.8	49
4	Modeling of hydraulic fracturing and designing of online pumping schedules to achieve uniform proppant concentration in conventional oil reservoirs. <i>Computers and Chemical Engineering</i> , 2018, 114, 306-317.	3.8	49
5	Optimization of simultaneously propagating multiple fractures in hydraulic fracturing to achieve uniform growth using data-based model reduction. <i>Chemical Engineering Research and Design</i> , 2018, 136, 675-686.	5.6	42
6	Optimal pumping schedule design to achieve a uniform proppant concentration level in hydraulic fracturing. <i>Computers and Chemical Engineering</i> , 2017, 101, 138-147.	3.8	39
7	Modeling and Control of Proppant Distribution of Multistage Hydraulic Fracturing in Horizontal Shale Wells. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 3159-3169.	3.7	39
8	Feedback control of proppant bank heights during hydraulic fracturing for enhanced productivity in shale formations. <i>AICHE Journal</i> , 2018, 64, 1638-1650.	3.6	35
9	Approximate Dynamic Programming Based Control of Proppant Concentration in Hydraulic Fracturing. <i>Mathematics</i> , 2018, 6, 132.	2.2	33
10	Evaluating the spatiotemporal variability of water recovery ratios of shale gas wells and their effects on shale gas development. <i>Journal of Cleaner Production</i> , 2020, 276, 123171.	9.3	20
11	Multi-Size Proppant Pumping Schedule of Hydraulic Fracturing: Application to a MP-PIC Model of Unconventional Reservoir for Enhanced Gas Production. <i>Processes</i> , 2020, 8, 570.	2.8	20
12	Enlarging the Domain of Attraction of the Local Dynamic Mode Decomposition with Control Technique: Application to Hydraulic Fracturing. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 5588-5601.	3.7	18
13	Model-based feedback control of oil production in oil-rim reservoirs under gas coning conditions. <i>Computers and Chemical Engineering</i> , 2018, 112, 112-120.	3.8	17
14	Economic Model-Based Controller Design Framework for Hydraulic Fracturing To Optimize Shale Gas Production and Water Usage. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 12097-12115.	3.7	17
15	Enhancing total fracture surface area in naturally fractured unconventional reservoirs via model predictive control. <i>Journal of Petroleum Science and Engineering</i> , 2020, 184, 106525.	4.2	11
16	Numerical study of the effect of propped surface area and fracture conductivity on shale gas production: Application for multi-size proppant pumping schedule design. <i>Journal of Natural Gas Science and Engineering</i> , 2020, 79, 103349.	4.4	11
17	Incorporation of sustainability in process control of hydraulic fracturing in unconventional reservoirs. <i>Chemical Engineering Research and Design</i> , 2018, 139, 62-76.	5.6	10
18	Optimal design of shale gas supply chain network considering MPC-based pumping schedule of hydraulic fracturing in unconventional reservoirs. <i>Chemical Engineering Research and Design</i> , 2019, 147, 412-429.	5.6	10

#	ARTICLE	IF	CITATIONS
19	Simultaneous measurement uncertainty reduction and proppant bank height control of hydraulic fracturing. Computers and Chemical Engineering, 2019, 127, 272-281.	3.8	9
20	Feedback control of proppant bank heights during hydraulic fracturing for enhanced productivity in shale formations. Computer Aided Chemical Engineering, 2018, 44, 703-708.	0.5	3
21	Model-based feedback control of oil production in oil-rim reservoirs under gas coning conditions. , 2018, , .		1
22	Impact of Proppant Pumping Schedule on Well Production for Slickwater Fracturing. , 2020, , .		1
23	Identification of spatially varying geological properties in a heterogeneous reservoir using EnKF and POD based parameterization. , 2018, , .		0
24	Design of online pumping schedules in naturally fractured shale formations to enhance total fracture surface area. , 2020, , .		0