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DOI: 10.1038/s42256-021-00302-5 Nature Machine Intelligence, 2021, 3, 218-229.

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240	Metamodel-based multidisciplinary design optimization methods for aerospace system. <b>2021</b> , 5, 185-2	15	8
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234	Physics-informed learning of governing equations from scarce data. <b>2021</b> , 12, 6136		7
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232	A seamless multiscale operator neural network for inferring bubble dynamics. 2021, 929,	7
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229	DeepGreen: deep learning of Green's functions for nonlinear boundary value problems. <b>2021</b> , 11, 21614	4
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226	PhyCRNet: Physics-informed convolutional-recurrent network for solving spatiotemporal PDEs. <b>2022</b> , 389, 114399	2
225	Mosaic flows: A transferable deep learning framework for solving PDEs on unseen domains. <b>2022</b> , 389, 114424	3
224	A novel sequential method to train physics informed neural networks for Allen Cahn and Cahn Hilliard equations. <b>2022</b> , 390, 114474	O
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221	Mesh-Conv: Convolution operator with mesh resolution independence for flow field modeling. <b>2022</b> , 452, 110896	3
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219	Applying machine learning to study fluid mechanics. 1	5
218	Neural network guided adjoint computations in dual weighted residual error estimation. 2022, 4, 1	0
217	SSNO: Spatio-spectral Neural Operator for Functional Space Learning of Partial Differential Equations <b>2022</b> , 10, 15084-15095	O
216	Learning high-order geometric flow based on the level set method. <b>2022</b> , 107, 2429	1
215	Forecasting solar-thermal systems performance under transient operation using a data-driven machine learning approach based on the deep operator network architecture. <b>2022</b> , 252, 115063	2

214	A physics-informed variational DeepONet for predicting crack path in quasi-brittle materials. <b>2022</b> , 391, 114587	9
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212	Simulating progressive intramural damage leading to aortic dissection using DeepONet: an operator-regression neural network <b>2022</b> , 19, 20210670	3
211	DSFA-PINN: Deep Spectral Feature Aggregation Physics Informed Neural Network. <b>2022</b> , 10, 22247-22259	1
<b>2</b> 10	A Deep Finite Difference Emulator for the Fast Simulation of Coupled Viscous Burgers Equation.	
209	Artificial Intelligence Enabled Radio Propagation for Communications <b>P</b> art II: Scenario Identification and Channel Modeling. <b>2022</b> , 1-1	11
208	Learning Quantum Drift-Diffusion Phenomenon by Physics-Constraint Machine Learning. 2022, 1-12	1
207	Data-driven discovery of Green's functions with human-understandable deep learning <b>2022</b> , 12, 4824	1
206	Prediction of Intermittent Fluctuations from Surface Pressure Measurements on a Turbulent Airfoil. 1-17	1
205	Predicting micro-bubble dynamics with semi-physics-informed deep learning. 2022, 12, 035153	O
204	Physics informed neural networks for continuum micromechanics. <b>2022</b> , 393, 114790	1
203	Unsteady flow prediction from sparse measurements by compressed sensing reduced order modeling. <b>2022</b> , 393, 114800	2
202	Towards extraction of orthogonal and parsimonious non-linear modes from turbulent flows. <b>2022</b> , 117038	5
201	An efficient neural network method with plane wave activation functions for solving Helmholtz equation. <b>2022</b> , 111, 34-49	O
200	Further investigation of convolutional neural networks applied in computational electromagnetism under physics-informed consideration.	О
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198	Learning functional priors and posteriors from data and physics. <b>2022</b> , 457, 111073	2
197	Modeling of nonlinear dynamic system based on Deep Operator Network. <b>2021</b> ,	

196	A framework for data-driven solution and parameter estimation of PDEs using conditional generative adversarial networks. <b>2021</b> , 1, 819-829	8
195	Metric entropy limits on recurrent neural network learning of linear dynamical systems. 2021,	
194	Spatiotemporal Co-Attention Hybrid Neural Network for Pedestrian Localization Based on 6D IMU. <b>2022</b> , 1-13	1
193	Ensemble-SINDy: Robust sparse model discovery in the low-data, high-noise limit, with active learning and control <b>2022</b> , 478, 20210904	2
192	Adaptive deep neural networks methods for high-dimensional partial differential equations. <b>2022</b> , 111232	O
191	Modern Koopman Theory for Dynamical Systems. <b>2022</b> , 64, 229-340	7
190	Interfacing finite elements with deep neural operators for fast multiscale modeling of mechanics problems. <b>2022</b> , 115027	3
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188	A survey of unsupervised learning methods for high-dimensional uncertainty quantification in black-box-type problems. <b>2022</b> , 111313	Ο
187	Learning-Based Local Weighted Least Squares for Algebraic Multigrid Method.	O
186	Sparse Gaussian Processes for Solving Nonlinear Pdes.	
185	Deep Learning of Nonlinear Flame Fronts Development Due to Darrieus-Landau Instability.	
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182	Asymptotic-preserving schemes for multiscale physical problems. <b>2022</b> , 31, 415-489	Ο
181	Improved Architectures and Training Algorithms for Deep Operator Networks. <b>2022</b> , 92,	
180	VPNets: Volume-preserving neural networks for learning source-free dynamics. <b>2022</b> , 114523	
179	Eighty Years of the Finite Element Method: Birth, Evolution, and Future.	1

178	DWNN: Deep Wavelet Neural Network for Solving Partial Differential Equations. 2022, 10, 1976	O
177	Multifidelity deep neural operators for efficient learning of partial differential equations with application to fast inverse design of nanoscale heat transport. <b>2022</b> , 4,	2
176	Hierarchical deep learning of multiscale differential equation time-steppers. 2022, 380,	1
175	Data-driven prediction in dynamical systems: recent developments. <b>2022</b> , 380,	1
174	Approximation of the Boundary-to-Solution Operator for the Groundwater Transport Equation in a Toth Basin.	
173	Reduced Operator Inference for Nonlinear Partial Differential Equations. <b>2022</b> , 44, A1934-A1959	O
172	Probabilistic deep learning for real-time large deformation simulations. <b>2022</b> , 398, 115307	2
171	Learning deep Implicit Fourier Neural Operators (IFNOs) with applications to heterogeneous material modeling. <b>2022</b> , 398, 115296	1
170	ReLU deep neural networks from the hierarchical basis perspective. 2022, 120, 105-114	1
169	Deep-neural-network solution of piezo-phototronic transistor based on GaN/AlN quantum wells. <b>2022</b> , 101, 107586	1
168	Predicting certain vector optical solitons via the conservation-law deep-learning method. <b>2022</b> , 155, 108428	5
167	Data-driven rogue waves and parameters discovery in nearly integrable PT-symmetric GrossBitaevskii equations via PINNs deep learning. <b>2022</b> , 439, 133430	O
166	Scientific Machine Learning Through PhysicsInformed Neural Networks: Where we are and What Next. <b>2022</b> , 92,	15
165	HomPINNs: Homotopy physics-informed neural networks for learning multiple solutions of nonlinear elliptic differential equations. <b>2022</b> , 121, 62-73	O
164	Deep Learning Model-Agnostic Controller for VTOL Class UAS. 2022,	
163	Data-Driven Deep Learning for The Multi-Hump Solitons and Parameters Discovery in NLS Equations with Generalized \$\${mathcal{PT}mathcal{}}\$\$-Scarf-II Potentials.	
162	Fractional Differential Equations in Sports Training in Universities. 2022,	
161	Accelerating Langevin Field-Theoretic Simulation of Polymers with Deep Learning. 2022, 55, 6505-6515	3

Generative Adversarial Network for Probabilistic Forecast of Random Dynamical Systems. **2022**, 44, A2150-A2175

159	Neural-Network Based Collision Operators for the Boltzmann Equation. 2022, 111541	O
158	Active Neuron Least Squares: A Training Method for Multivariate Rectified Neural Networks. <b>2022</b> , 44, A2253-A2275	О
157	High Speed Simulation and Freeform Optimization of Nanophotonic Devices with Physics-Augmented Deep Learning.	3
156	A concise guide to modelling the physics of embodied intelligence in soft robotics.	1
155	Learning Differential Operators for Interpretable Time Series Modeling. 2022,	Ο
154	Accelerating hydrodynamic simulations of urban drainage systems with physics-guided machine learning. <b>2022</b> , 223, 118972	О
153	Scalable uncertainty quantification for deep operator networks using randomized priors. 2022, 399, 115399	O
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151	Nonlocal kernel network (NKN): A stable and resolution-independent deep neural network. <b>2022</b> , 469, 111536	O
150	Assessment of DeepONet for time dependent reliability analysis of dynamical systems subjected to stochastic loading. <b>2022</b> , 270, 114811	О
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148	Learning Fine Scale Dynamics from Coarse Observations via Inner Recurrence. 2022,	О
147	Dispersed Pixel Perturbation-Based Imperceptible Backdoor Trigger for Image Classifier Models. <b>2022</b> , 17, 3091-3106	O
146	Learning Asymmetric Embedding for Attributed Networks Via Convolutional Neural Network.	О
145	Fast Automatic Liver Tumor Radiofrequency Ablation Planning via Learned Physics Model. <b>2022</b> , 167-176	О
144	A Gentle Introduction to Physics-Informed Neural Networks, with Applications in Static Rod and Beam Problems. 9, 103-128	0
143	Forward and inverse modeling of water flow in unsaturated soils with discontinuous hydraulic conductivities using physics-informed neural networks with domain decomposition. <b>2022</b> , 26, 4469-4495	O

142	Neural operator learning of heterogeneous mechanobiological insults contributing to aortic aneurysms. <b>2022</b> , 19,	0
141	Fed-DeepONet: Stochastic Gradient-Based Federated Training of Deep Operator Networks. <b>2022</b> , 15, 325	Ο
140	A priori and a posteriori error estimates for the Deep Ritz method applied to the Laplace and Stokes problem. <b>2022</b> , 114845	0
139	Improved Deep Neural Networks with Domain Decomposition in Solving Partial Differential Equations. <b>2022</b> , 93,	1
138	Imaging Orientation of a Single Molecular Hierarchical Self-Assembled Sheet: The Combined Power of a Vibrational Sum Frequency Generation Microscopy and Neural Network. <b>2022</b> , 126, 7192-7201	0
137	Learning two-phase microstructure evolution using neural operators and autoencoder architectures. <b>2022</b> , 8,	O
136	Kinetic subspace investigation using neural network for uncertainty quantification in nonpremixed flamelets. <b>2022</b> ,	0
135	Fourier filter-based physics- information convolutional recurrent network for 2D incompressible flow. 10,	Ο
134	DRVN (Deep Random Vortex Network): A new physics-informed machine learning method for simulating and inferring incompressible fluid flows.	0
133	Using Machine Learning to estimate the impact of different modes of transport and traffic restriction strategies on urban air quality. <b>2022</b> , 45, 101284	Ο
132	Discovery the inverse variational problems from noisy data by physics-constrained machine learning.	0
131	State of Charge Estimation of Lithium-Ion Battery for Electric Vehicles under Extreme Operating Temperatures Based on an Adaptive Temporal Convolutional Network. <b>2022</b> , 8, 145	1
130	Concurrent MultiParameter Learning Demonstrated on the KuramotoSivashinsky Equation. <b>2022</b> , 44, A2974-A2990	0
129	Linking research of biomedical datasets.	O
128	A physics-constrained neural network for multiphase flows. <b>2022</b> , 34, 102102	0
127	A framework for machine learning of model error in dynamical systems. <b>2022</b> , 2, 283-344	Ο
126	Fourier Neural Solver for Large Sparse Linear Algebraic Systems. <b>2022</b> , 10, 4014	0
125	DAE-PINN: a physics-informed neural network model for simulating differential algebraic equations with application to power networks.	1

124	Deep-HyROMnet: A Deep Learning-Based Operator Approximation for Hyper-Reduction of Nonlinear Parametrized PDEs. <b>2022</b> , 93,	O
123	A Physics-Guided Neural Operator Learning Approach to Model Biological Tissues From Digital Image Correlation Measurements. <b>2022</b> , 144,	O
122	Online Deep Learning from Doubly-Streaming Data. 2022,	O
121	Learning the Stress-Strain Fields in Digital Composites using Fourier Neural Operator. <b>2022</b> , 105452	O
120	Empowering engineering with data, machine learning and artificial intelligence: a short introductive review. <b>2022</b> , 9,	O
119	G2flet: Relating genotype and biomechanical phenotype of tissues with deep learning. <b>2022</b> , 18, e1010660	O
118	Output-weighted and relative entropy loss functions for deep learning precursors of extreme events. <b>2022</b> , 133570	O
117	Recent Developments in Artificial Intelligence in Oceanography. <b>2022</b> , 2022, 1-26	1
116	Multiphysics-informed deep learning for swelling of pH/temperature sensitive cationic hydrogels and its inverse problem. <b>2022</b> , 175, 104498	O
115	Data-driven soliton mappings for integrable fractional nonlinear wave equations via deep learning with Fourier neural operator. <b>2022</b> , 165, 112787	1
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113	B-DeepONet: An enhanced Bayesian DeepONet for solving noisy parametric PDEs using accelerated replica exchange SGLD. <b>2023</b> , 473, 111713	O
112	T-Cell Based Therapies: Clinical Applications and Challenges. <b>2022</b> , 1-13	O
111	Deep Learning of Chaotic Systems from Partially-Observed Data. 2022,	O
110	SVD perspectives for augmenting DeepONet flexibility and interpretability. 2023, 403, 115718	O
109	Phase space approach to solving higher order differential equations with artificial neural networks. <b>2022</b> , 4,	O
108	Data-driven synchronization-avoiding algorithms in the explicit distributed structural analysis of soft tissue.	O
107	Variational Monte Carlo Approach to Partial Differential Equations with Neural Networks.	O

106	Using shock tube species time-histories in Bayesian parameter estimation: Effective independent-data number and target selection. <b>2022</b> ,	0
105	MIONet: Learning Multiple-Input Operators via Tensor Product. <b>2022</b> , 44, A3490-A3514	2
104	Theory-guided physics-informed neural networks for boundary layer problems with singular perturbation. <b>2022</b> , 111768	1
103	Closed-form continuous-time neural networks.	1
102	Rapidly encoding generalizable dynamics in a Euclidean symmetric neural network. <b>2022</b> , 101925	0
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100	A deep learning approach to Reduced Order Modelling of parameter dependent partial differential equations.	0
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98	Rapid Surrogate Modeling of Electromagnetic Data in Frequency Domain Using Neural Operator. <b>2022</b> , 1-1	1
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96	SympOCnet: Solving Optimal Control Problems with Applications to High-Dimensional Multiagent Path Planning Problems. <b>2022</b> , 44, B1341-B1368	1
95	Calibrating constitutive models with full-field data via physics informed neural networks.	О
94	A general deep transfer learning framework for predicting the flow field of airfoils with small data. <b>2023</b> , 251, 105738	2
93	Robust modeling of unknown dynamical systems via ensemble averaged learning. <b>2023</b> , 474, 111842	Ο
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91	Neural operator prediction of linear instability waves in high-speed boundary layers. <b>2023</b> , 474, 111793	O
90	Physics-informed machine learning methods for biomass gasification modeling by considering monotonic relationships. <b>2023</b> , 369, 128472	О
89	On stability and regularization for data-driven solution of parabolic inverse source problems. <b>2023</b> , 474, 111769	O

88	Deep Convolutional Dictionary Learning for Multi-modal Image Denoising. 2022,	0
87	Efficient Interdependent Systems Recovery Modeling with DeepONets*. 2022,	O
86	Learning Groundwater Contaminant Diffusion-Sorption Processes With a Finite Volume Neural Network. <b>2022</b> , 58,	0
85	Two-Layer Neural Networks with Values in a Banach Space. <b>2022</b> , 54, 6358-6389	O
84	Physical laws meet machine intelligence: current developments and future directions.	0
83	Machine-learning-based data-driven discovery of nonlinear phase-field dynamics. 2022, 106,	O
82	Long-time integration of parametric evolution equations with physics-informed DeepONets. 2022, 111855	0
81	Discovering and forecasting extreme events via active learning in neural operators. <b>2022</b> , 2, 823-833	O
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79	Data-driven parametric soliton-rogon state transitions for nonlinear wave equations using deep learning with Fourier neural operator.	0
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74	Learning-based physical models of room-temperature semiconductor detectors with reduced data. <b>2023</b> , 13,	0
73	Chemical reaction networks and opportunities for machine learning.	O
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7°	Data-driven and physics-informed deep learning operators for solution of heat conduction equation with parametric heat source. <b>2023</b> , 203, 123809	O
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65	Accelerating Gradient Descent and Adam Via Fractional Gradients.	О
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61	Comparison of Prediction Accuracy Between Interpolation and Artificial Intelligence Application of CFD Data for 3D Cavity Flow. <b>2023</b> , 509-519	О
60	Probabilistic partition of unity networks for high-dimensional regression problems.	О
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58	Autonomous vehicles decision-making enhancement using self-determination theory and mixed-precision neural networks.	О
57	Machine learning in fundamental electrochemistry: Recent advances and future opportunities. <b>2023</b> , 101214	О
56	Deep learning-based instantaneous cutting force modeling of three-axis CNC milling. 2023, 246, 108153	O
55	Encoder and Decoder Framework for Operator Approximation. 2022,	O
54	Stiff-PDEs and Physics-Informed Neural Networks.	0
53	Deep language models for interpretative and predictive materials science. <b>2023</b> , 1, 010901	O

52	Evolution TANN and the identification of internal variables and evolution equations in solid mechanics. <b>2023</b> , 174, 105245	O
51	Data-driven control of agent-based models: An Equation/Variable-free machine learning approach. <b>2023</b> , 478, 111953	O
50	Physics informed neural networks: A case study for gas transport problems. <b>2023</b> , 481, 112041	1
49	BINN: A deep learning approach for computational mechanics problems based on boundary integral equations. <b>2023</b> , 410, 116012	Ο
48	Multi-objective robust optimization for enhanced safety in large-diameter tunnel construction with interactive and explainable AI. <b>2023</b> , 234, 109172	O
47	Learning asymmetric embedding for attributed networks via convolutional neural network. <b>2023</b> , 219, 119659	Ο
46	Physics-constrained 3D convolutional neural networks for electrodynamics. <b>2023</b> , 1, 026109	Ο
45	Loss landscape engineering via Data Regulation on PINNs. <b>2023</b> , 12, 100464	O
44	Deep learning of nonlinear flame fronts development due to Darrieus[landau instability. 2023, 1, 026106	О
43	Inferring electrochemical performance and parameters of Li-ion batteries based on deep operator networks. <b>2023</b> , 65, 107176	O
42	Scalable conditional deep inverse Rosenblatt transports using tensor trains and gradient-based dimension reduction. <b>2023</b> , 485, 112103	0
41	Residual-based error correction for neural operator accelerated infinite-dimensional Bayesian inverse problems. <b>2023</b> , 486, 112104	O
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39	Greedy training algorithms for neural networks and applications to PDEs. <b>2023</b> , 484, 112084	Ο
38	Fourier Neural Operator for Accurate Optical Fiber Modeling With Low Complexity. 2023, 41, 2301-2311	O
37	A deep learning energy-based method for classical elastoplasticity. <b>2023</b> , 162, 103531	Ο
36	Data-driven forward and inverse problems for chaotic and hyperchaotic dynamic systems based on two machine learning architectures. <b>2023</b> , 446, 133656	O
35	Accelerating physics-informed neural network based 1D arc simulation by meta learning. 2023, 56, 074006	O

34	Approximation bounds for convolutional neural networks in operator learning. 2023, 161, 129-141	0
33	Stochastic projection based approach for gradient free physics informed learning. <b>2023</b> , 406, 115842	O
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31	Learning time-averaged turbulent flow field of jet in crossflow from limited observations using physics-informed neural networks. <b>2023</b> , 35, 025131	O
30	On the geometry transferability of the hybrid iterative numerical solver for differential equations.	0
29	Multi-Fidelity Machine Learning Applied to Steady Fluid Flows. <b>2022</b> , 36, 618-640	O
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19	The need for adoption of neural HPC (NeuHPC) in space sciences. 10,	O
18	A wavelet neural operator based elastography for localization and quantification of tumors. <b>2023</b> , 232, 107436	О
17	Towards a Machine Learning Pipeline in Reduced Order Modelling for Inverse Problems: Neural Networks for Boundary Parametrization, Dimensionality Reduction and Solution Manifold Approximation. <b>2023</b> , 95,	O

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16	Physics Informed Neural Networks towards the real-time calculation of heat fluxes at W7-X. <b>2023</b> , 34, 101401	О
15	Physics-informed dynamic mode decomposition. <b>2023</b> , 479,	1
14	A theory-informed machine learning approach for cryogenic cavitation prediction. 2023, 35, 032118	О
13	Data-Driven RANS Turbulence Closures for Forced Convection Flow in Reactor Downcomer Geometry. 1-18	O
12	DeepONet-grid-UQ: A trustworthy deep operator framework for predicting the power grid post-fault trajectories. <b>2023</b> , 535, 166-182	O
11	BI-GreenNet: Learning Green® Functions by Boundary Integral Network.	1
10	Prediction of the morphological evolution of a splashing drop using an encoderdecoder. 2023, 4, 025002	O
9	Bi-fidelity modeling of uncertain and partially unknown systems using DeepONets.	O
8	Neural Operator-Based Surrogate Solver for Free-Form Electromagnetic Inverse Design.	O
7	Physics-regularized neural network of the ideal-MHD solution operator in Wendelstein 7-X configurations. <b>2023</b> , 63, 066020	O
6	Rapid Seismic Waveform Modeling and Inversion With Neural Operators. <b>2023</b> , 61, 1-12	0
5	Semi-supervised invertible neural operators for Bayesian inverse problems.	O
4	Scarce data driven deep learning of drones via generalized data distribution space.	O
3	A review of uncertainty quantification and its applications in numerical simulation of scramjet combustor. <b>2023</b> , 100351	O
2	Parsimonious physics-informed random projection neural networks for initial value problems of ODEs and index-1 DAEs. <b>2023</b> , 33, 043128	0
1	Basis operator network: A neural network-based model for learning nonlinear operators via neural basis. <b>2023</b> ,	O